

FACT BOOK

STATISTICAL INFORMATION ON HIGHWAY SAFETY



U.S. Department of Transportation
National Highway Traffic Safety Administration
National Center for Statistics and Analysis
Washington, D.C. 20590

Fact Book

Statistical Information on Highway Safety



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FOREWORD

The Congress has charged the Department of Transportation with the task of achieving a reduction in traffic accidents and their resulting deaths and injuries. The National Highway Traffic Safety Administration (NHTSA) is the Departmental agency which formulates and administers safety programs designed to meet these goals.

To evaluate existing and proposed highway safety and motor vehicle safety standards, identify problem areas, establish better safety systems and generate improved standards and remedial measures, a strong analytical foundation is required. The National Center for Statistics and Analysis (NCSA) was established to develop a comprehensive, reliable and timely data collection program and provide the necessary foundation to support NHTSA's highway safety activities. The Center is responsible for all activities related to accident statistics from experimental design through data collection, storage, analysis and dissemination.

This is the third annual issue of the FACT BOOK prepared by NCSA. The FACT BOOK is a compendium of highway traffic safety information presenting statistical data on principal factors related to motor vehicle accidents and recent research and development activity in the field of highway safety.

Over the past year the FACT BOOK was reorganized in an effort to improve its utility. This third annual publication is prepared in a fact sheet format, each issue a complete information piece on a single subject. As new data are acquired on a subject area, that FACT BOOK issue will be updated and reprinted. The FACT BOOK will not be published in its entirety in the coming years.

This FACT BOOK consists of three volumes: Volume 1 contains exposure data pertinent to the precrash environment; and Volume 3 contains fatal accident data obtained from the Fatal Accident Reporting System (FARS). Volume 2 will be published in the next few months and will contain injury and accident data obtained from the National Crash Severity Study (NCSS).

A subject index has been included in this year's book and it will be updated and republished biannually. It is suggested that the reader update the index as needed until reissued.

We welcome any and all comments and suggestions on this year's FACT BOOK.

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GENERAL HIGHWAY STATISTICS

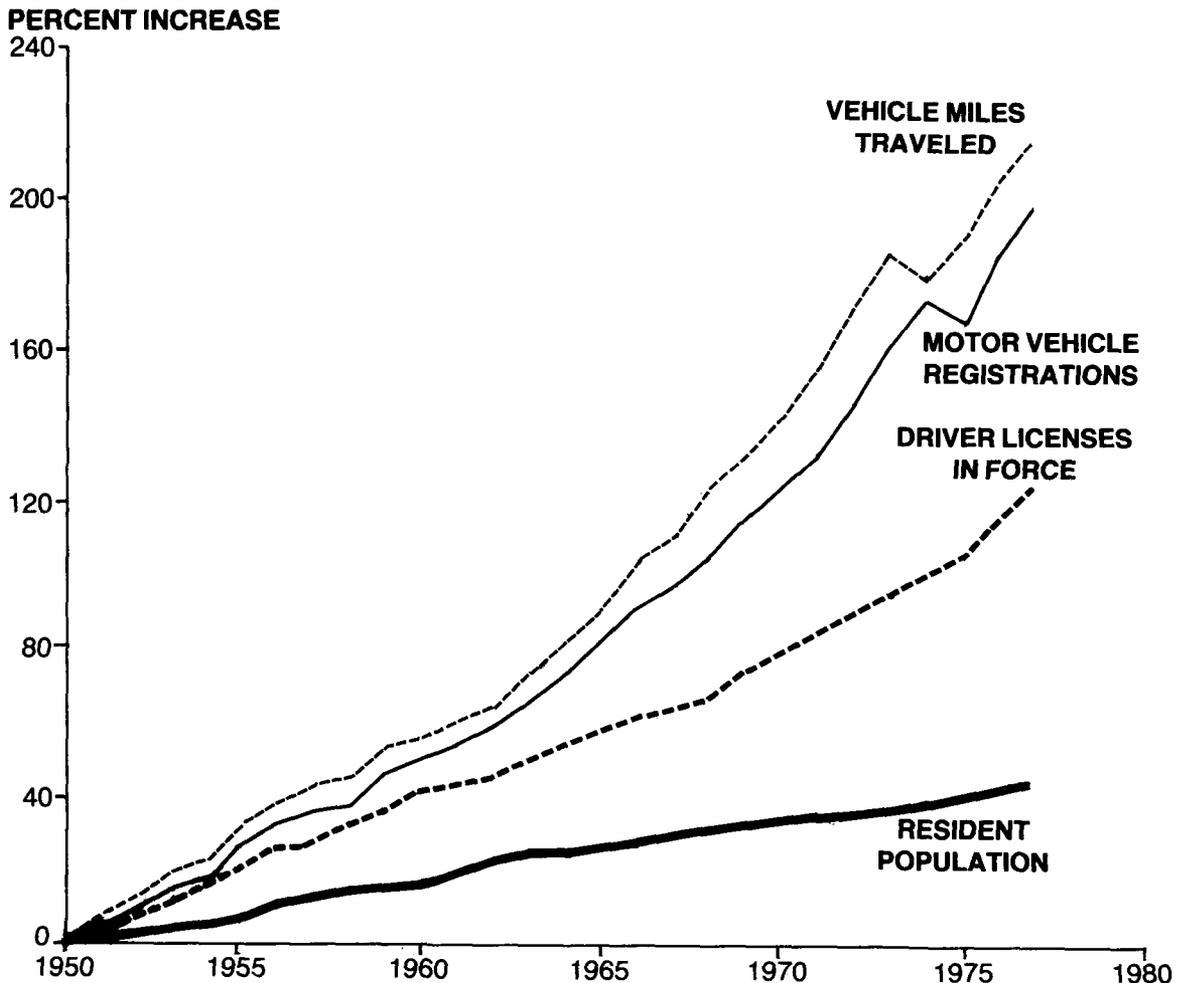
Between World War II and the fuel shortage at the end of 1973, motor vehicle usage increased. There were increases in the number of driver licenses in force, in the number of vehicles registered, and in the total vehicle miles traveled.

From 1950-1977, the number of driver licenses in force increased at an average rate of 3.0 percent per year. The number of motor vehicles registered increased annually at an average rate of 4.2 percent, while the total vehicle miles traveled increased at an average annual rate of 4.4 percent per year.

Since the U.S. resident population has only increased by 1.3 percent per year (as compared to 3.0 percent for licensed drivers), it appears that the proportion of the resident population holding driver licenses has increased. It is noteworthy, however, that a comparison of driver licenses and the U.S. resident population of driving age indicates the possibility of some duplication in the driver license count according to data submitted to the Federal Highway Administration by the states.*

*See page I(1)3.

FIGURE 1
RELATIVE PERCENT INCREASE SINCE 1950 OF MOTOR VEHICLE REGISTRATIONS, DRIVER LICENSES IN FORCE, RESIDENT POPULATION, AND ESTIMATED VEHICLE MILES TRAVELED †



†See page I(1)3.

The following tabulation is supporting data for the display presented.

TABLE 1
EXPOSURE STATISTICS PERTAINING TO HIGHWAY SYSTEMS†

| YEAR | RESIDENT POPULATION (THOUSANDS) | DRIVER LICENSES IN FORCE (THOUSANDS) | MOTOR VEHICLES REGISTERED (THOUSANDS) | VEHICLE MILES TRAVELED (BILLIONS) |
|-------------|--|---|--|--|
| 1936 | 128053 | 42000 | 28,612 | 252 |
| 1937 | 128825 | 44000 | 30,172 | 270 |
| 1938 | 129825 | 44000 | 29,931 | 271 |
| 1939 | 130880 | 46000 | 31,136 | 285 |
| 1940 | 132457 | 48000 | 32,590 | 302 |
| 1941 | 133669 | 52000 | 35,035 | 334 |
| 1942 | 134617 | 49000 | 33,172 | 268 |
| 1943 | 135107 | 46000 | 31,042 | 208 |
| 1944 | 133915 | 45000 | 30,645 | 213 |
| 1945 | 133434 | 46000 | 31,233 | 250 |
| 1946 | 140686 | 50000 | 34,687 | 341 |
| 1947 | 144083 | 53000 | 38,276 | 371 |
| 1948 | 146730 | 55000 | 41,587 | 398 |
| 1949 | 149304 | 59322 | 45,169 | 424 |
| 1950 | 151868 | 62193 | 49,616 | 458 |
| 1951 | 153982 | 64444 | 52,342 | 491 |
| 1952 | 156393 | 66826 | 53,680 | 514 |
| 1953 | 158955 | 69870 | 56,629 | 544 |
| 1954 | 161884 | 71897 | 58,910 | 562 |
| 1955 | 165069 | 74686 | 63,101 | 606 |
| 1956 | 168088 | 77659 | 65,580 | 631 |
| 1957 | 171187 | 79631 | 67,594 | 647 |
| 1958 | 174149 | 81537 | 68,818 | 665 |
| 1959 | 177135 | 84498 | 71,920 | 700 |
| 1960 | 179979 | 87253 | 74,432 | 719 |
| 1961 | 182992 | 88744 | 76,557 | 738 |
| 1962 | 185771 | 90588 | 79,811 | 767 |
| 1963 | 188483 | 93573 | 83,483 | 805 |
| 1964 | 191141 | 95468 | 87,299 | 847 |
| 1965 | 193526 | 98502 | 91,740 | 888 |
| 1966 | 195576 | 100998 | 95,703 | 928 |
| 1967 | 197457 | 103172 | 98,859 | 966 |
| 1968 | 199399 | 105410 | 102,987 | 1,020 |
| 1969 | 201385 | 108306 | 107,412 | 1,066 |
| 1970 | 203810 | 111543 | 111,242 | 1,114 |
| 1971 | 206219 | 114426 | 116,330 | 1,186 |
| 1972 | 208234 | 118414 | 122,557 | 1,265 |
| 1973 | 209859 | 121546 | 130,025 | 1,317 |
| 1974 | 211381 | 125427 | 134,900 | 1,283 |
| 1975 | 213051 | 129791 | 132,962 | 1,331 |
| 1976 | 214669 | 134036 | 143,538 | 1,409 |
| 1977 | 216332 | 137901 | 148,880 | 1,465 |

†See page I(1)3.

Data for 1976, and 1977 preliminary estimates are provided by the Highway Statistics Division, Federal Highway Administration (FHWA), U.S. Department of Transportation, Nassif Building, 400 7th Street, SW., Washington, D.C. 20590, (202) 426-0180.

For more information about this and other Highway Safety Facts, write the National Center for Statistics and Analysis, NRD-34, National Highway Traffic Safety Administration, 2100 Second Street, SW., Washington, D.C. 20590.

References

*Mundy, Arlene, *1978 Driver License Administration Requirements and Fees*, Vehicles, Drivers and Fuel Branch, Highway Statistics Division, Federal Highway Administration, U.S. Department of Transportation, February 1978.

†Federal Highway Administration, *Highway Statistics Summary to 1975*, Highway Statistics Division, U.S. Department of Transportation, No. FHWA-HP-HS-S75, 1975.

†U.S. Bureau of Census, *Current Population Reports*, (1930 to 1976), Series P-25, No. 706, Series P-25, No. 726.



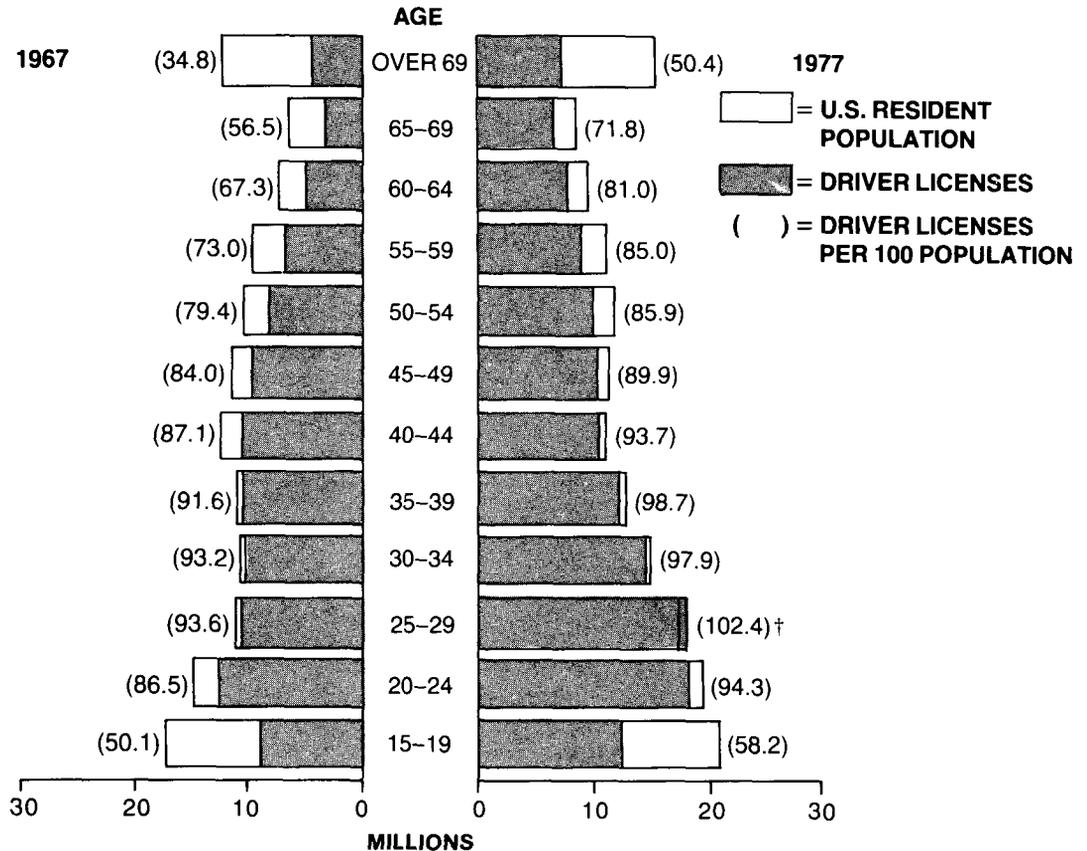
DRIVER LICENSING

Since 1954, all states require that motor vehicle drivers have a valid license to operate a motor vehicle. To obtain a valid license, drivers must pass a written or oral test, a vision test, and a driving performance test. The driver license data are submitted by the State Authorities and other sources to the Federal Highway Administration.

The comparison by age and sex of the estimated U.S. population with the number of driver licenses is shown in Figures 1, 2, and 3. Between 1967 and 1977, the number of driver licenses per 100 population increased within each age group, particularly among females. A distribution by sex shows that there are more females than males in the population but more males are licensed to drive. Within the 20-44 age group, the number of driver licenses issued to males is beyond the saturation level. Because of over-reporting of licensed drivers and multiple licenses (e.g., a person licensed in two states), the categories referenced by a dagger (†) on Figure 1, and 2, are over-saturated. That is, the number of driver licenses in force exceeds the number of people in the population for these categories.*

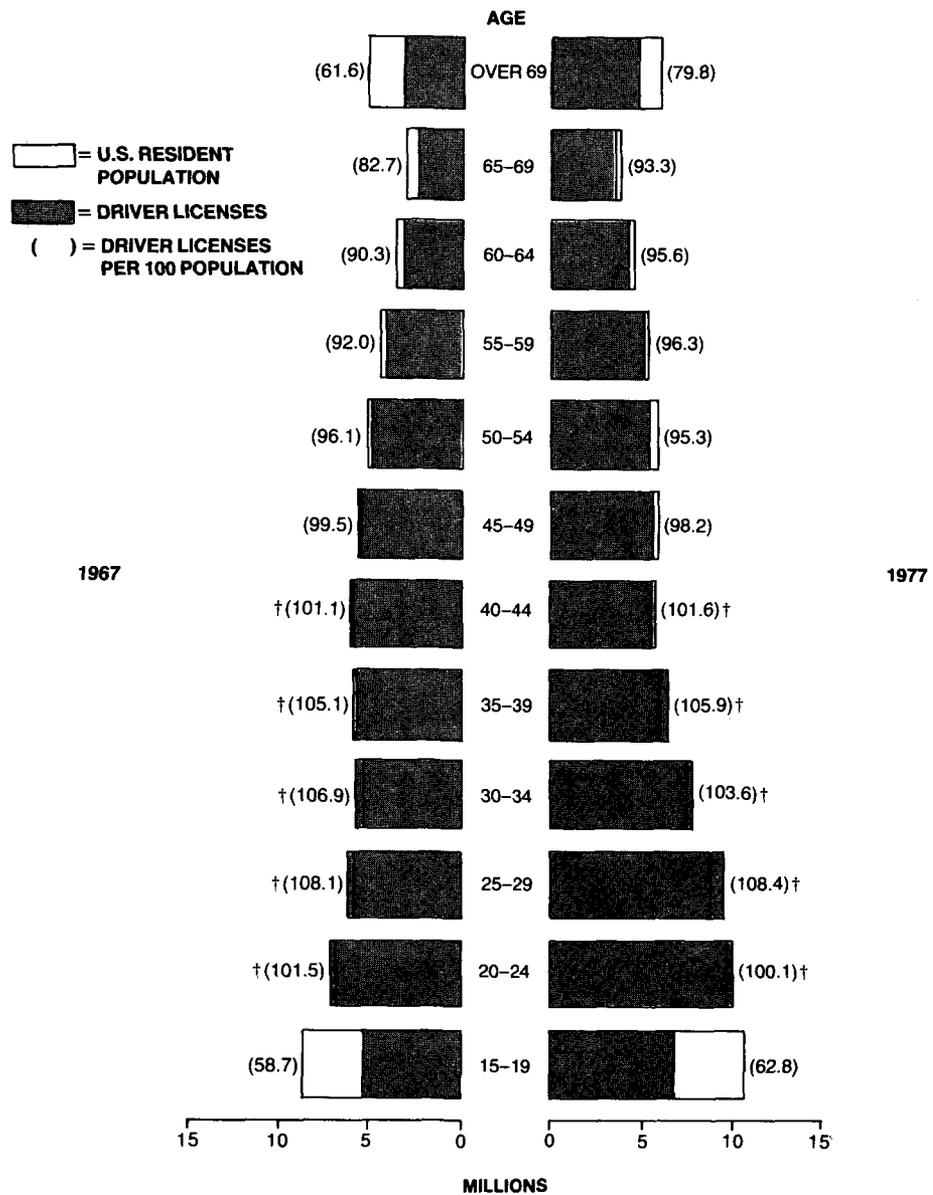
*See page I(2)9.

FIGURE 1
U.S. RESIDENT POPULATION AND NUMBER OF ALL DRIVER LICENSES, 1967 AND 1977. ‡



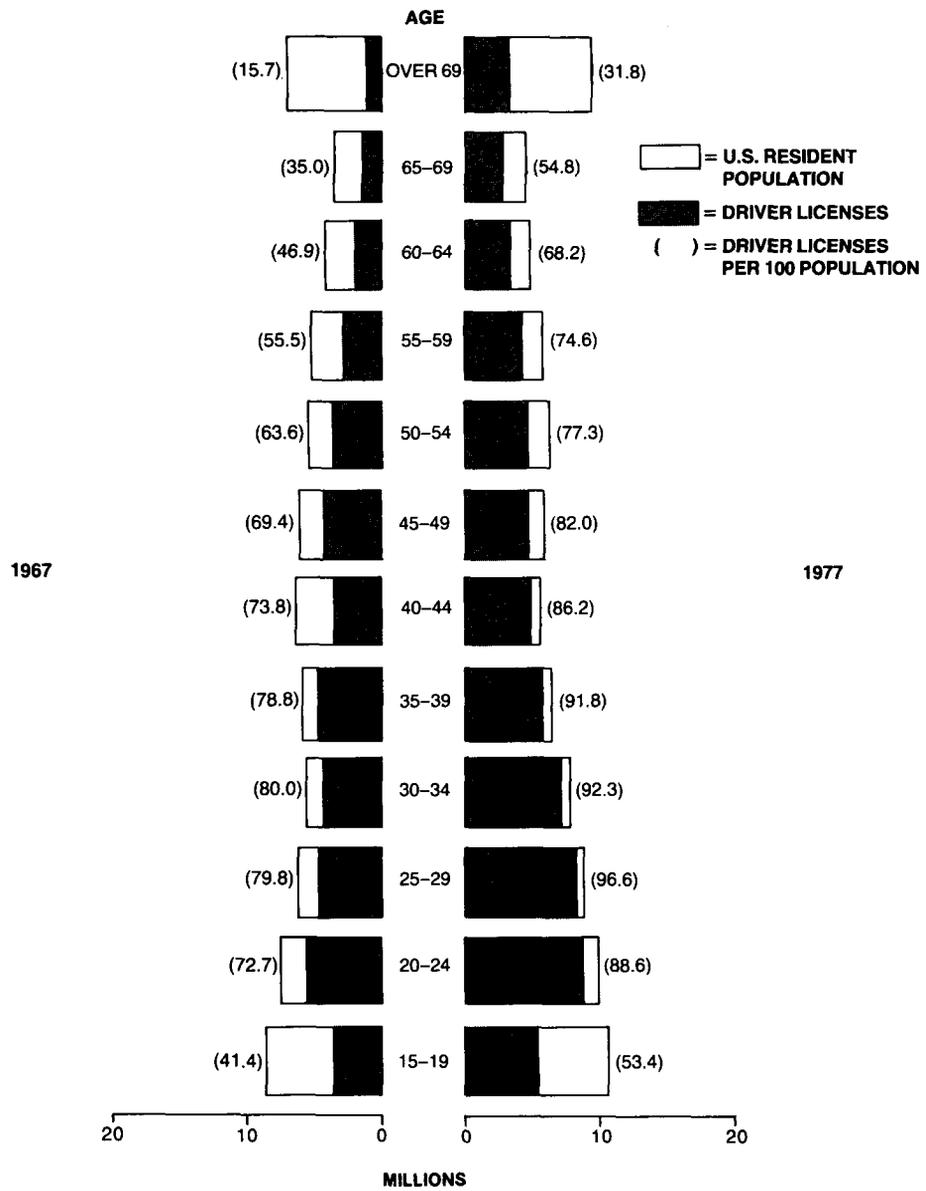
‡See page I(2)9.

FIGURE 2
U.S. RESIDENT POPULATION AND NUMBER OF DRIVER LICENSES, 1967 AND 1977—MALES.†



†See page I(2)9.

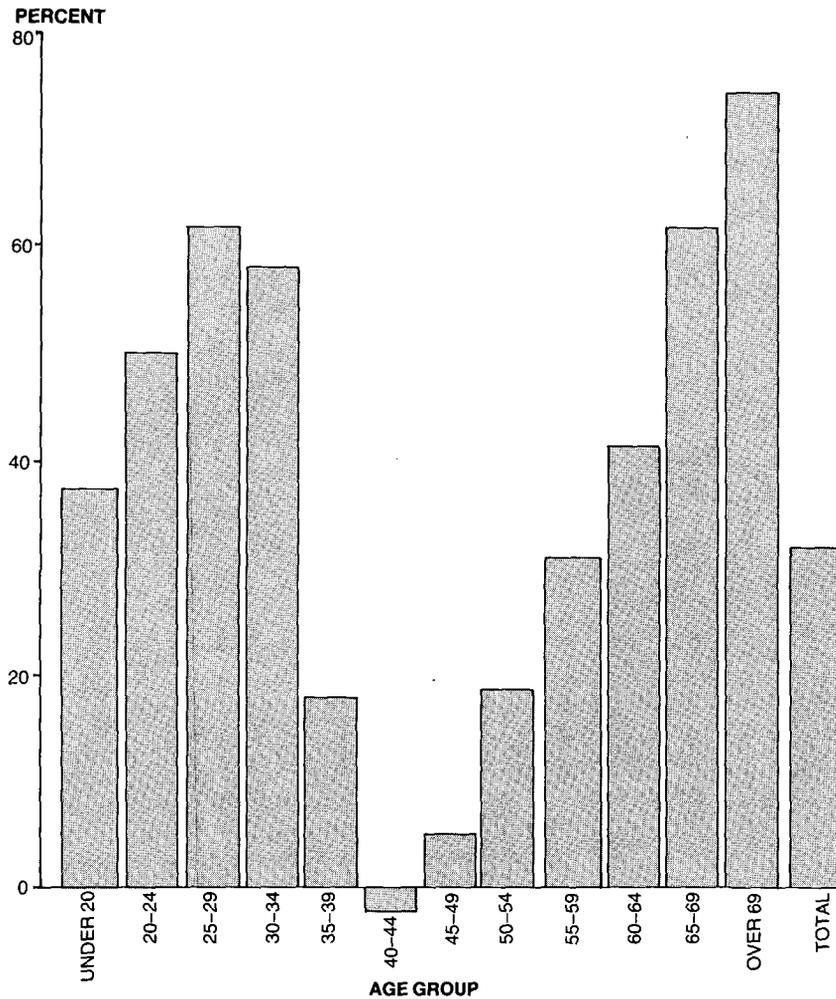
FIGURE 3
U.S. RESIDENT POPULATION AND NUMBER OF DRIVER LICENSES, 1967 AND 1977—FEMALES.†



†See page I(2)9.

Changes in the age distribution of licensed drivers are important elements of the highway safety problem, because drivers of different ages appear to have different accident profiles. In recent years, the largest licensing increases have occurred in the under-30 and over-59 age groups where the risk of accident is highest.

FIGURE 4
PERCENT CHANGE IN TOTAL NUMBER OF DRIVER LICENSES IN FORCE BY AGE GROUP, 1967-1977†

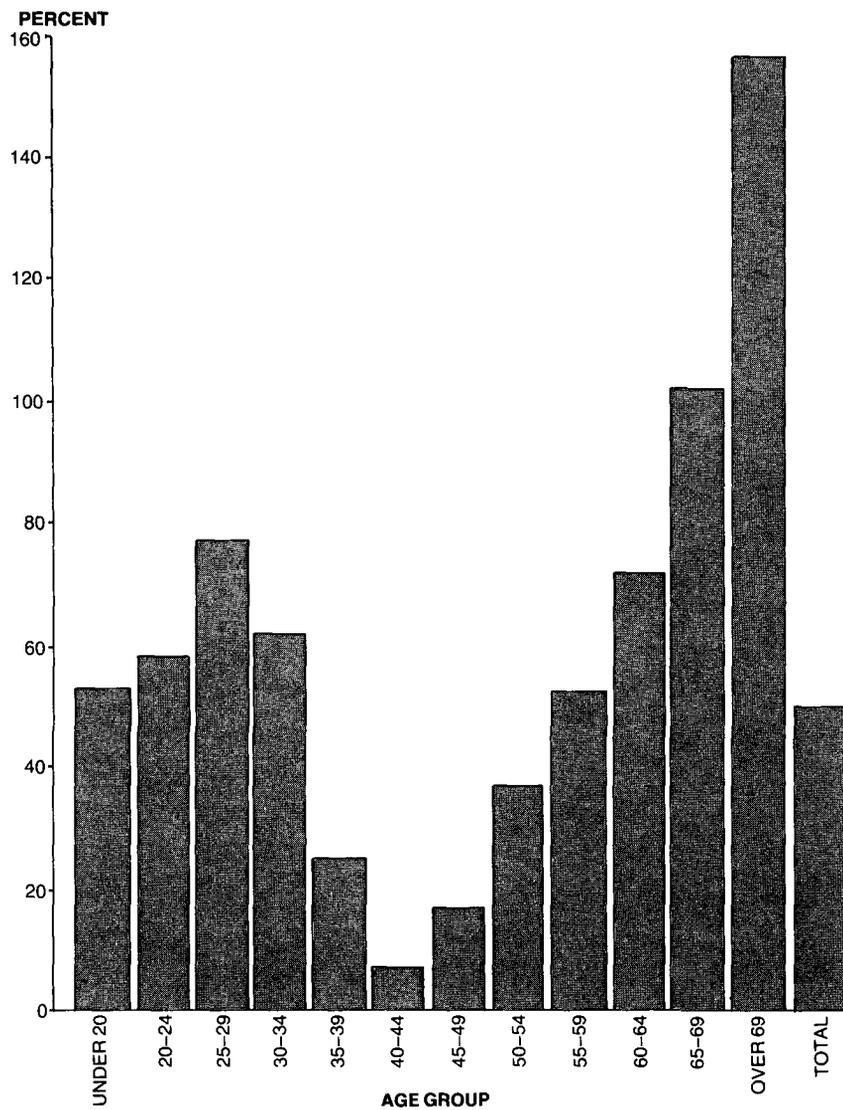


†See page I(2)9.

In the 11 year period, from 1967 to 1977, the increase was 50 percent in the under-30 group and 58 percent in the over-59 group as compared to 19 percent in the 30 to 59 group.

During the period from 1967 to 1977, there was an increase of 102 percent in the number of licenses issued to women over age 59. This reflects the tremendous increase in driving by women in this age group.

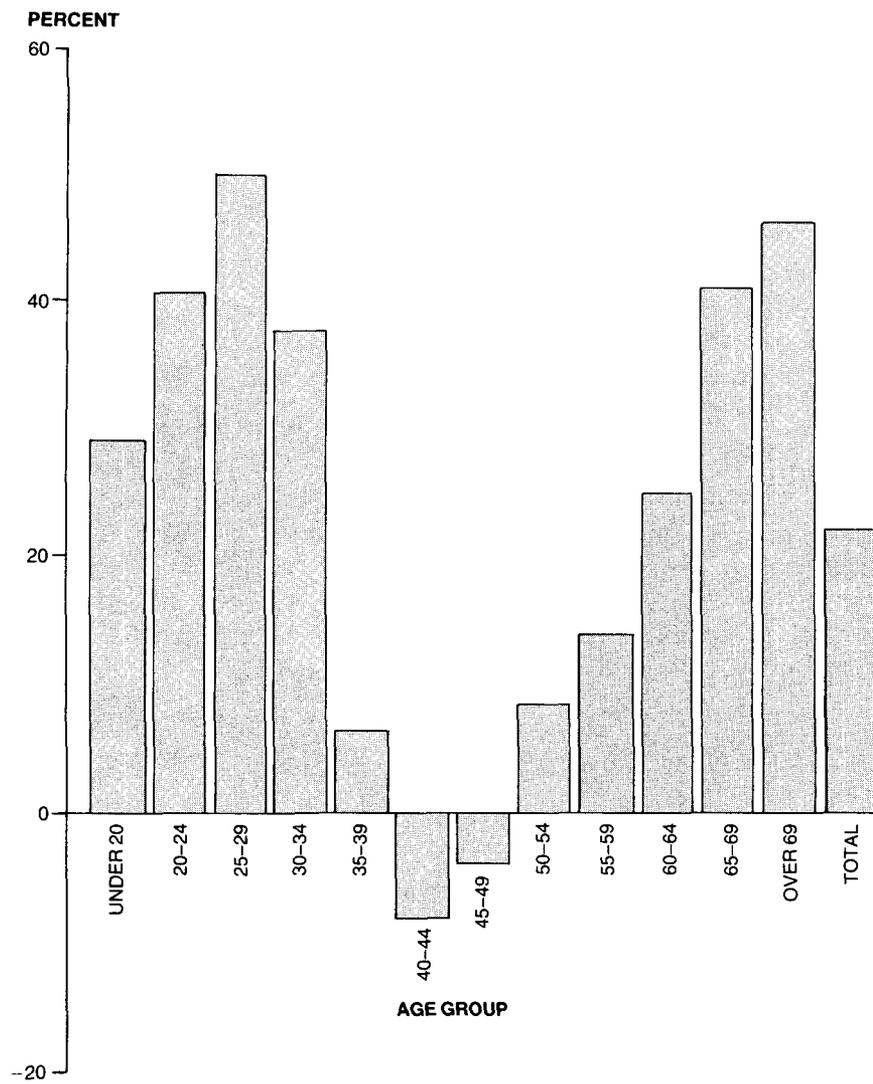
FIGURE 5
PERCENT INCREASE IN NUMBER OF DRIVER LICENSES IN FORCE BY AGE GROUP, FEMALE, 1967-1977 ‡



‡See page I(2)9.

From 1967 to 1977, there was an overall 49 percent increase in the number of licenses issued to female drivers, but only a 23 percent increase in the number of licenses issued to male drivers. As a result, during this 11 year period, the estimated ratio of male to female drivers declined from 3:2 to 7:6.

FIGURE 6
PERCENT CHANGE IN NUMBER OF DRIVER LICENSES IN FORCE BY AGE GROUP, MALE, 1967-1977 ‡



‡See page I(2)9.

The following tabulations contain supporting data for the displays presented.

TABLE 1
U.S. RESIDENT POPULATION BY AGE AND SEX (THOUSANDS)‡

| AGE GROUP | 1967 | | | 1977 | | |
|-----------|------|--------|-------|-------|--------|-------|
| | MALE | FEMALE | ALL | MALE | FEMALE | ALL |
| 15-19 | 8953 | 8837 | 17789 | 10689 | 10416 | 21104 |
| 20-24 | 6985 | 7581 | 14567 | 9929 | 9954 | 19882 |
| 25-29 | 5839 | 6105 | 11943 | 8735 | 8901 | 17635 |
| 30-34 | 5367 | 5585 | 10952 | 7577 | 7777 | 15354 |
| 35-39 | 5635 | 5934 | 11569 | 5986 | 6312 | 12297 |
| 40-44 | 5993 | 6347 | 12339 | 5448 | 5736 | 11182 |
| 45-49 | 5684 | 6038 | 11722 | 5608 | 5897 | 11505 |
| 50-54 | 5188 | 5505 | 10694 | 5711 | 6166 | 11877 |
| 55-59 | 4688 | 5077 | 9764 | 5269 | 5765 | 11034 |
| 60-64 | 3758 | 4229 | 7987 | 4381 | 4981 | 9362 |
| 65-69 | 3013 | 3670 | 6683 | 3739 | 4708 | 8446 |
| OVER 69 | 5146 | 7243 | 12388 | 5830 | 9217 | 15047 |

‡See page I(2)9.

TABLE 2
DRIVER LICENSES IN FORCE BY AGE GROUP (THOUSANDS)‡

| YEAR | ALL | <20 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 | 45-49 | 50-54 | 55-59 | 60-64 | 65-69 | >69 |
|------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 1965 | 98502 | 8623 | 11580 | 10318 | 10028 | 10633 | 10544 | 9412 | 8169 | 6708 | 5005 | 3597 | 3885 |
| | 100.00 | 8.75 | 11.76 | 10.47 | 10.18 | 10.79 | 10.70 | 9.56 | 8.29 | 6.81 | 5.08 | 3.65 | 3.94 |
| 1966 | 100998 | 8955 | 12070 | 10734 | 10055 | 10540 | 10587 | 9613 | 8295 | 6169 | 5268 | 3719 | 4243 |
| | 100.00 | 8.87 | 11.95 | 10.63 | 9.96 | 10.44 | 10.48 | 9.52 | 8.21 | 6.11 | 5.22 | 3.68 | 4.20 |
| 1967 | 103172 | 8913 | 12604 | 11183 | 10206 | 10598 | 10743 | 9843 | 8489 | 7129 | 5377 | 3777 | 4310 |
| | 100.00 | 8.64 | 12.22 | 10.84 | 9.89 | 10.27 | 10.41 | 9.54 | 8.23 | 6.91 | 5.21 | 3.66 | 4.18 |
| 1968 | 105410 | 8009 | 13046 | 23448 | 20902 | 21126 | 21606 | 20088 | 8665 | 7290 | 5610 | 3865 | 4340 |
| | 100.00 | 7.60 | 12.38 | 22.24 | 19.83 | 20.04 | 20.50 | 19.06 | 8.22 | 6.92 | 5.32 | 3.67 | 4.12 |
| 1969 | 108306 | 9411 | 13801 | 11995 | 10640 | 10573 | 10777 | 10244 | 8829 | 7538 | 5821 | 4075 | 4602 |
| | 100.00 | 8.69 | 12.74 | 11.08 | 9.82 | 9.76 | 9.95 | 9.46 | 8.15 | 6.96 | 5.37 | 3.76 | 4.25 |
| 1970 | 111543 | 9864 | 14757 | 12769 | 10789 | 10424 | 10636 | 10431 | 9066 | 7756 | 6091 | 4226 | 4734 |
| | 100.00 | 8.84 | 13.23 | 11.45 | 9.67 | 9.35 | 9.54 | 9.35 | 8.13 | 6.95 | 5.46 | 3.79 | 4.24 |
| 1971 | 114426 | 9891 | 15267 | 13173 | 10927 | 10150 | 10383 | 10318 | 9314 | 8000 | 6485 | 4751 | 5767 |
| | 100.00 | 8.64 | 13.34 | 11.51 | 9.55 | 8.87 | 9.07 | 9.02 | 8.14 | 6.99 | 5.67 | 4.15 | 5.04 |
| 1972 | 118414 | 10377 | 15861 | 14073 | 11657 | 10393 | 10485 | 10540 | 9609 | 8175 | 6652 | 4860 | 5732 |
| | 100.00 | 8.76 | 13.39 | 11.88 | 9.84 | 8.78 | 8.85 | 8.90 | 8.11 | 6.90 | 5.62 | 4.10 | 4.84 |
| 1973 | 121546 | 10901 | 16131 | 14796 | 12285 | 10555 | 10397 | 10476 | 9804 | 8310 | 6870 | 5065 | 5956 |
| | 100.00 | 8.97 | 13.27 | 12.17 | 10.11 | 8.68 | 8.55 | 8.62 | 8.07 | 6.84 | 5.65 | 4.17 | 4.90 |
| 1974 | 125427 | 11356 | 16830 | 15765 | 12872 | 10737 | 10272 | 10357 | 10043 | 8474 | 7084 | 5245 | 6392 |
| | 100.00 | 9.05 | 13.42 | 12.57 | 10.26 | 8.56 | 8.19 | 8.26 | 8.01 | 6.76 | 5.65 | 4.18 | 5.10 |
| 1975 | 129791 | 11695 | 17633 | 16736 | 13327 | 11056 | 10232 | 10378 | 10192 | 8825 | 7372 | 5609 | 6736 |
| | 100.00 | 9.01 | 13.59 | 12.89 | 10.27 | 8.52 | 7.88 | 8.00 | 7.85 | 6.80 | 5.68 | 4.32 | 5.19 |
| 1976 | 134036 | 11852 | 18155 | 17467 | 14333 | 11618 | 10379 | 10370 | 10169 | 9138 | 7536 | 5840 | 7179 |
| | 100.00 | 8.84 | 13.54 | 13.03 | 10.69 | 8.67 | 7.74 | 7.74 | 7.59 | 6.82 | 5.62 | 4.36 | 5.36 |
| 1977 | 137901 | 12274 | 18753 | 18065 | 15031 | 12135 | 10480 | 10343 | 10205 | 9377 | 7585 | 6068 | 7585 |
| | 100.00 | 8.90 | 13.60 | 13.10 | 10.90 | 8.80 | 7.60 | 7.50 | 7.40 | 6.80 | 5.50 | 4.40 | 5.50 |

‡See page I(2)9.

**TABLE 3
DRIVER LICENSES IN FORCE BY AGE GROUP (THOUSANDS)†**

MALE

| YEAR | ALL | < 20 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 | 45-49 | 50-54 | 55-59 | 60-64 | 65-69 | > 69 |
|-------------|------------|----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|
| 1965 | 58308 | 5123 | 6585 | 5882 | 5665 | 5962 | 5984 | 5457 | 4870 | 4149 | 3228 | 2448 | 2954 |
| | 100.00 | 8.79 | 11.29 | 10.09 | 9.72 | 10.23 | 10.26 | 9.36 | 8.35 | 7.12 | 5.54 | 4.20 | 5.07 |
| 1966 | 59478 | 5232 | 6803 | 6090 | 5676 | 5905 | 5999 | 5544 | 4924 | 4247 | 3374 | 2494 | 3190 |
| | 100.00 | 8.80 | 11.44 | 10.24 | 9.54 | 9.93 | 10.09 | 9.32 | 8.28 | 7.14 | 5.67 | 4.19 | 5.36 |
| 1967 | 60378 | 5253 | 7090 | 6312 | 5739 | 5922 | 6056 | 5653 | 4988 | 4311 | 3392 | 2491 | 3171 |
| | 100.00 | 8.70 | 11.74 | 10.45 | 9.51 | 9.81 | 10.03 | 9.36 | 8.26 | 7.14 | 5.62 | 4.13 | 5.25 |
| 1968 | 61203 | 5286 | 14564 | 13138 | 11658 | 11692 | 12028 | 11430 | 5053 | 4381 | 3513 | 2538 | 3177 |
| | 100.00 | 8.64 | 23.80 | 21.47 | 19.05 | 19.10 | 19.65 | 18.68 | 8.26 | 7.16 | 5.74 | 4.15 | 5.19 |
| 1969 | 62347 | 5466 | 7636 | 6686 | 5892 | 5810 | 5968 | 5769 | 5085 | 4485 | 3594 | 2636 | 3320 |
| | 100.00 | 8.77 | 12.25 | 10.72 | 9.45 | 9.32 | 9.57 | 9.25 | 8.16 | 7.19 | 5.76 | 4.23 | 5.33 |
| 1970 | 63302 | 5628 | 8083 | 7000 | 5880 | 5675 | 5834 | 5788 | 5150 | 4546 | 3692 | 2685 | 3341 |
| | 100.00 | 8.89 | 12.77 | 11.06 | 9.29 | 8.96 | 9.22 | 9.14 | 8.14 | 7.18 | 5.83 | 4.24 | 5.28 |
| 1971 | 64292 | 5579 | 8335 | 7180 | 5924 | 5493 | 5663 | 5674 | 5219 | 4605 | 3832 | 2931 | 3857 |
| | 100.00 | 8.68 | 12.96 | 11.17 | 9.21 | 8.54 | 8.81 | 8.83 | 8.12 | 7.16 | 5.96 | 4.56 | 6.00 |
| 1972 | 66027 | 5814 | 8577 | 7615 | 6273 | 5590 | 5683 | 5757 | 5348 | 4669 | 3899 | 2967 | 3835 |
| | 100.00 | 8.81 | 12.99 | 11.53 | 9.50 | 8.47 | 8.61 | 8.72 | 8.10 | 7.07 | 5.91 | 4.49 | 5.81 |
| 1973 | 67115 | 6073 | 8665 | 7905 | 6541 | 5623 | 5591 | 5680 | 5403 | 4679 | 3976 | 3059 | 3920 |
| | 100.00 | 9.05 | 12.91 | 11.78 | 9.75 | 8.38 | 8.33 | 8.46 | 8.05 | 6.97 | 5.92 | 4.56 | 5.84 |
| 1974 | 68574 | 6260 | 8981 | 8341 | 6789 | 5669 | 5490 | 5570 | 5471 | 4717 | 4047 | 3105 | 4134 |
| | 100.00 | 9.13 | 13.10 | 12.16 | 9.90 | 8.27 | 8.01 | 8.12 | 7.98 | 6.88 | 5.90 | 4.53 | 6.03 |
| 1975 | 70505 | 6419 | 9367 | 8824 | 7014 | 5822 | 5444 | 5569 | 5508 | 4858 | 4158 | 3255 | 4267 |
| | 100.00 | 9.10 | 13.29 | 12.52 | 9.95 | 8.26 | 7.72 | 7.90 | 7.81 | 6.89 | 5.90 | 4.62 | 6.05 |
| 1976 | 72523 | 6500 | 9646 | 9195 | 7529 | 6104 | 5503 | 5546 | 5463 | 4993 | 4208 | 3363 | 4473 |
| | 100.00 | 8.96 | 13.30 | 12.68 | 10.38 | 8.42 | 7.59 | 7.65 | 7.53 | 6.88 | 5.80 | 4.64 | 6.17 |
| 1977 | 74195 | 6715 | 9935 | 9471 | 7850 | 6338 | 5536 | 5505 | 5441 | 5075 | 4189 | 3490 | 4650 |
| | 100.00 | 9.05 | 13.39 | 12.77 | 10.58 | 8.54 | 7.46 | 7.42 | 7.33 | 6.84 | 5.65 | 4.70 | 6.27 |

†See page I(2)9.

TABLE 4
DRIVER LICENSES IN FORCE BY AGE GROUP (THOUSANDS)‡

FEMALE

| YEAR | ALL | <20 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 | 45-49 | 50-54 | 55-59 | 60-64 | 65-69 | > 69 |
|------|--------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 1965 | 40194 | 3500 | 4995 | 4436 | 4362 | 4671 | 4560 | 3955 | 3299 | 2559 | 1777 | 1149 | 931 |
| | 100.00 | 8.71 | 12.43 | 11.04 | 10.85 | 11.62 | 11.34 | 9.84 | 8.21 | 6.37 | 4.42 | 2.86 | 2.32 |
| 1966 | 41520 | 3723 | 5267 | 4644 | 4379 | 4635 | 4588 | 4069 | 3371 | 2672 | 1894 | 1225 | 1053 |
| | 100.00 | 8.97 | 12.69 | 11.18 | 10.55 | 11.16 | 11.05 | 9.80 | 8.12 | 6.44 | 4.56 | 2.95 | 2.54 |
| 1967 | 42794 | 3660 | 5514 | 4871 | 4467 | 4676 | 4687 | 4190 | 3501 | 2818 | 1985 | 1286 | 1139 |
| | 100.00 | 8.55 | 12.88 | 11.38 | 10.44 | 10.93 | 10.95 | 9.79 | 8.18 | 6.59 | 4.64 | 3.01 | 2.66 |
| 1968 | 44207 | 3723 | 5764 | 10310 | 9244 | 9434 | 9578 | 8658 | 3612 | 2909 | 2097 | 1327 | 1163 |
| | 100.00 | 8.42 | 13.04 | 23.32 | 20.91 | 21.34 | 21.67 | 19.59 | 8.17 | 6.58 | 4.74 | 3.00 | 2.63 |
| 1969 | 45959 | 3945 | 6165 | 5309 | 4748 | 4763 | 4889 | 4475 | 3744 | 2053 | 2227 | 1439 | 1282 |
| | 100.00 | 8.58 | 13.41 | 11.55 | 10.33 | 10.36 | 10.64 | 9.74 | 8.15 | 4.47 | 4.85 | 3.13 | 2.79 |
| 1970 | 48241 | 4236 | 6674 | 5769 | 4909 | 4749 | 4802 | 4643 | 3916 | 3210 | 2399 | 1541 | 1393 |
| | 100.00 | 8.78 | 13.83 | 11.96 | 10.18 | 9.84 | 9.95 | 9.62 | 8.12 | 6.65 | 4.97 | 3.19 | 2.89 |
| 1971 | 50134 | 4312 | 6932 | 5993 | 5003 | 4657 | 4720 | 4644 | 4095 | 3395 | 2653 | 1820 | 1910 |
| | 100.00 | 8.60 | 13.83 | 11.95 | 9.98 | 9.29 | 9.41 | 9.26 | 8.17 | 6.77 | 5.29 | 3.63 | 3.81 |
| 1972 | 52387 | 4563 | 7284 | 6458 | 5384 | 4803 | 4802 | 4783 | 4261 | 3506 | 2753 | 1893 | 1897 |
| | 100.00 | 8.71 | 13.90 | 12.33 | 10.28 | 9.17 | 9.17 | 9.13 | 8.13 | 6.69 | 5.26 | 3.61 | 3.62 |
| 1973 | 54431 | 4828 | 7466 | 6891 | 5744 | 4932 | 4806 | 4796 | 4401 | 3631 | 2894 | 2006 | 2036 |
| | 100.00 | 8.87 | 13.72 | 12.66 | 10.55 | 9.06 | 8.83 | 8.81 | 8.09 | 6.67 | 5.32 | 3.69 | 3.74 |
| 1974 | 56853 | 5096 | 7849 | 7424 | 6083 | 5068 | 4782 | 4787 | 4572 | 3757 | 3037 | 2140 | 2258 |
| | 100.00 | 8.96 | 13.81 | 13.06 | 10.70 | 8.91 | 8.41 | 8.42 | 8.04 | 6.61 | 5.34 | 3.76 | 3.97 |
| 1975 | 59286 | 5276 | 8266 | 7912 | 6313 | 5234 | 4788 | 4809 | 4684 | 3967 | 3214 | 2354 | 2469 |
| | 100.00 | 8.90 | 13.94 | 13.35 | 10.65 | 8.83 | 8.08 | 8.11 | 7.90 | 6.69 | 5.42 | 3.97 | 4.16 |
| 1976 | 61513 | 5352 | 8509 | 8272 | 6804 | 5514 | 4876 | 4824 | 4706 | 4145 | 3328 | 2477 | 2706 |
| | 100.00 | 8.70 | 13.83 | 13.45 | 11.06 | 8.96 | 7.93 | 7.84 | 7.65 | 6.74 | 5.41 | 4.03 | 4.40 |
| 1977 | 63706 | 5559 | 8818 | 8594 | 7181 | 5797 | 4944 | 4838 | 4764 | 4302 | 3396 | 2578 | 2935 |
| | 100.00 | 8.73 | 13.84 | 13.49 | 11.27 | 9.10 | 7.76 | 7.59 | 7.48 | 6.75 | 5.33 | 4.05 | 4.61 |

‡See page I(2)9.

Data for 1977 are preliminary estimates provided by the Highway Statistics Division, Federal Highway Administration, U.S. Department of Transportation, Nassif Building, 400 7th Street, SW., Washington, D.C. 20590, (202) 426-0180.

For more information about this and other Highway Safety Facts, write the National Center for Statistics and Analysis, NRD-34, National Highway Traffic Safety Administration, 2100 Second Street, SW., Washington, D.C. 20590.

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‡U.S. Bureau of the Census, *Current Population Reports*, Series P-25, No. 519, April 1974, and Series P-25, No. 721, April 1978.

‡Federal Highway Administration, *Drivers Licenses—1976*, Highway Statistics Division, U.S. Department of Transportation, HHP-43, 1977.

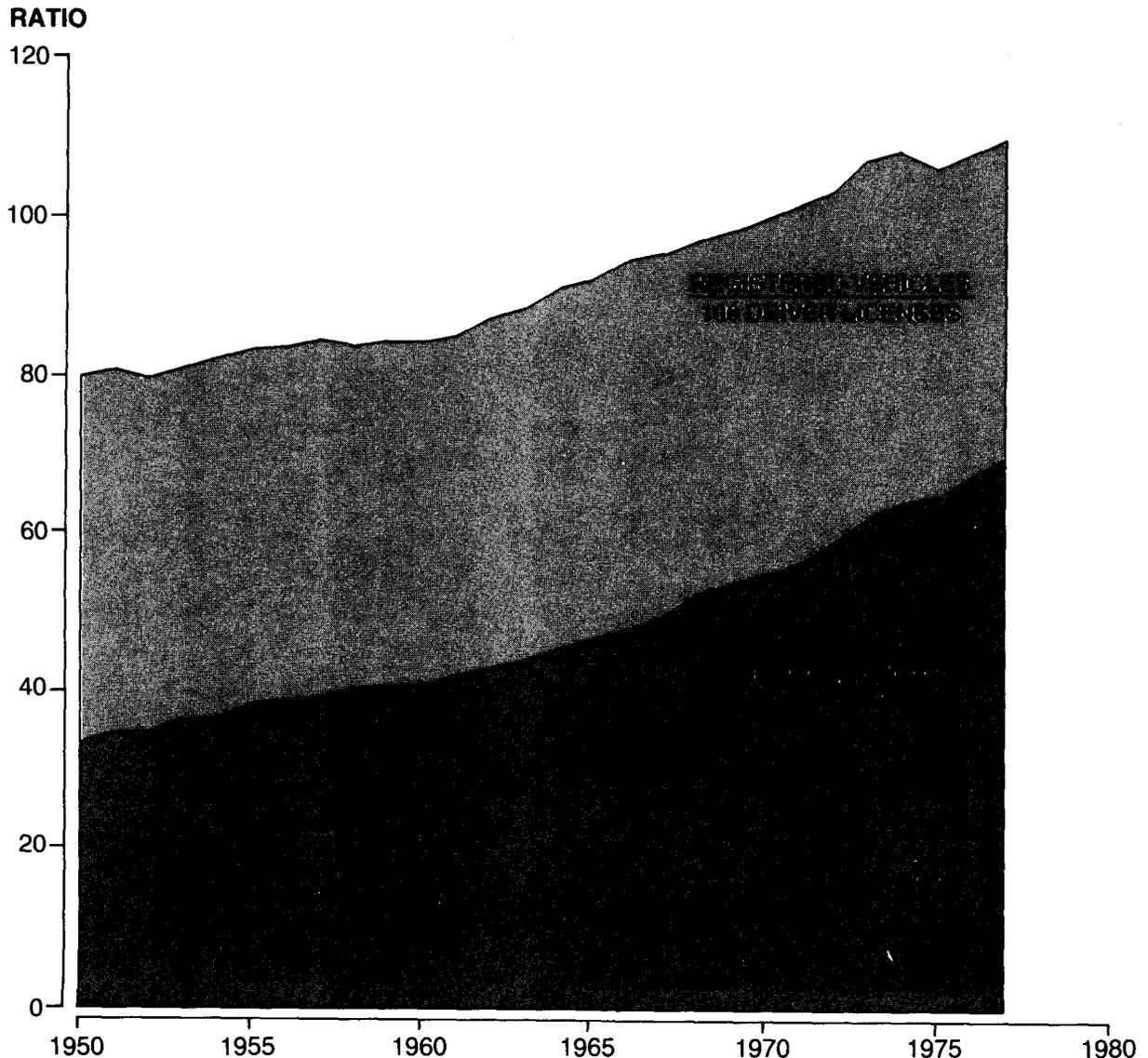


MOTOR VEHICLE REGISTRATION

In 1915, all states had a registration law, but it was not until 1921 that annual registration was required by all states. Accompanying the growth in motor vehicle registrations has been a corresponding diversity in the registration practices among the states. Therefore, the registration data that are submitted by the states are supplemented by the Federal Highway Administration (FHWA) with information obtained from special studies and other sources.

Motor vehicle registrations in the United States have increased since 1950 at a higher average annual rate than the U.S. resident population. Figure 1 illustrates the relative increase in motor vehicles compared to driver licenses in force and the U.S. resident population. In 1950, there was one vehicle for every three persons in the United States. By 1977, there were two vehicles for every three persons.

FIGURE 1
TREND IN RATIOS OF REGISTERED VEHICLES TO DRIVER LICENSES AND POPULATION, 1950-1977.



In 1977, there were nearly 149 million motor vehicles registered, an increase of over 5 million or 3.7 percent from 1976. The vehicle types showing the largest percentage increase were commercial buses, trucks and school buses. Motorcycle registrations have increased at an average annual rate of 11 percent between 1966 and 1976, however, from 1976 to 1977 the increase was only 1.1 percent.

TABLE 1
GROWTH IN POPULATION AND MOTOR VEHICLE REGISTRATION

| | 1966 | 1976 | AVG. ANNUAL | | 1977 | PERCENT INCREASE 1976-1977 |
|---|-------------|-------------|----------------------------------|----------------------------------|-------------|----------------------------------|
| | | | PERCENT INCREASE 1966-1976 | PERCENT INCREASE 1966-1976 | | |
| TOTAL REGISTERED MOTOR VEHICLES | 95,703,030 | 143,538,495 | 4.14 | 49.98 | 148,880,000 | 3.72 |
| AUTOMOBILES | 78,124,688 | 110,351,327 | 3.51 | 41.25 | 114,113,000 | 3.41 |
| TRUCKS | 15,502,994 | 27,719,597 | 5.98 | 78.80 | 29,218,000 | 5.41 |
| SCHOOL BUSES | 237,714 | 379,178 | 4.78 | 59.51 | 398,160 | 5.01 |
| COMMERCIAL BUSES | 84,456 | 99,161 | 1.62 | 17.41 | 105,840 | 6.74 |
| MOTORCYCLES ETC | 1,753,178 | 4,989,232 | 11.02 | 84.58 | 5,045,000 | 1.12 |
| U.S. RESIDENT POPULATION JULY 1 | 195,576,000 | 214,669,000 | .94 | 9.76 | 216,332,000 | .77 |
| REGISTERED MOTOR VEHICLES PER CAPITA | .49 | .67 | 3.17 | 36.64 | .69 | 2.92 |

Table 2 is the supporting data for Figure 1.

TABLE 2
TREND IN RATIOS OF REGISTERED VEHICLES TO DRIVER LICENSES
AND POPULATION, 1950-1977

| YEAR | REGISTERED VEHICLE/ DRIVER LICENSE | REGISTERED VEHICLE/ POPULATION |
|------|---------------------------------------|-----------------------------------|
| 1950 | .80 | .33 |
| 1951 | .81 | .34 |
| 1952 | .80 | .34 |
| 1953 | .81 | .36 |
| 1954 | .82 | .36 |
| 1955 | .84 | .38 |
| 1956 | .84 | .39 |
| 1957 | .85 | .39 |
| 1958 | .84 | .40 |
| 1959 | .85 | .41 |
| 1960 | .85 | .41 |
| 1961 | .86 | .42 |
| 1962 | .88 | .43 |
| 1963 | .89 | .44 |
| 1964 | .91 | .46 |
| 1965 | .93 | .47 |
| 1966 | .95 | .49 |
| 1967 | .96 | .50 |
| 1968 | .98 | .52 |
| 1969 | .99 | .53 |
| 1970 | 1.00 | .55 |
| 1971 | 1.02 | .56 |
| 1972 | 1.03 | .59 |
| 1973 | 1.07 | .62 |
| 1974 | 1.08 | .64 |
| 1975 | 1.06 | .65 |
| 1976 | 1.07 | .67 |
| 1977 | 1.08 | .69 |

Data for 1976 and 1977 preliminary estimates are provided by the Highway Statistics Division, Federal Highway Administration, U.S. Department of Transportation, Nassif Building, 400 7th Street, SW., Washington, D.C. 20590, (202) 426-0180.

For more information about this and other Highway Safety Facts, write the National Center for Statistics and Analysis, NRD-34, National Highway Traffic Safety Administration, 2100 Second Street, SW., Washington, D.C. 20590.

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Federal Highway Administration, *Highway Statistics Summary to 1975*, Highway Statistics Division, U.S. Department of Transportation, No. FHWA-HP-HS-S75, 1975.

U.S. Bureau of the Census, *Current Population Reports*, (1930 to 1976), Series P-25 No. 706 and 1977, Series P-25, No. 726.



MOTOR VEHICLE MILEAGE

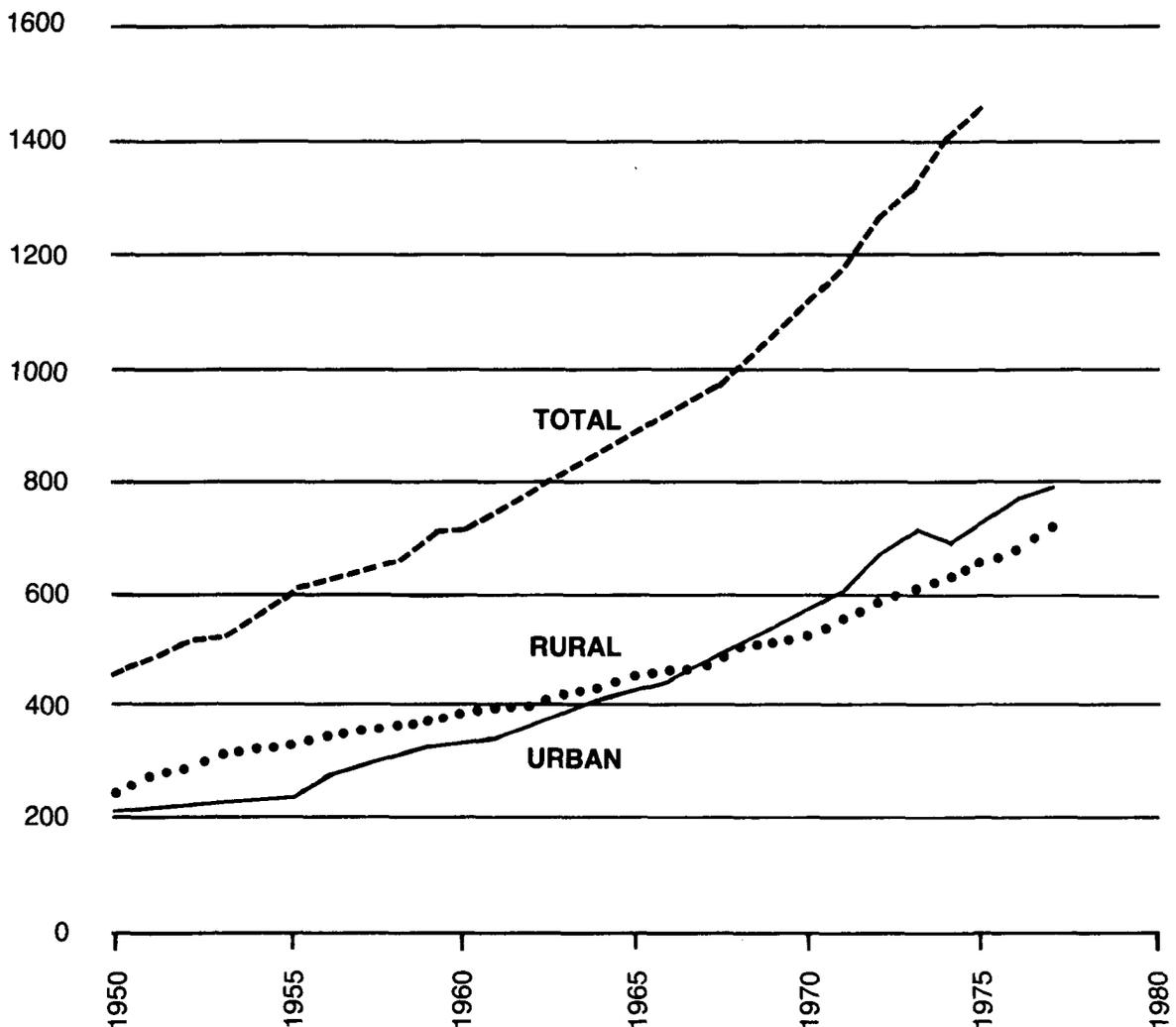
Estimates by the Federal Highway Administration (FHWA) of vehicle miles traveled are based on traffic counts, fuel consumption, vehicle registrations and home interview data.

Total motor vehicle travel in urban areas has increased more rapidly than in rural areas. In 1977, urban travel represented 54 percent of all motor vehicle miles traveled in the United States as compared to 50 percent in 1967.

In 1974, due to the gasoline crisis, the number of vehicle miles traveled was less than that of 1973. As shown in Figure 1, this was the first time since before 1950, that annual travel mileage did not exceed the previous year's mileage. However, as gasoline supplies increased, travel resumed its upward trend in 1975. From 1975 to 1977, the number of vehicle miles traveled increased by more than 150 billion miles, an average annual rate of 3.4 percent.

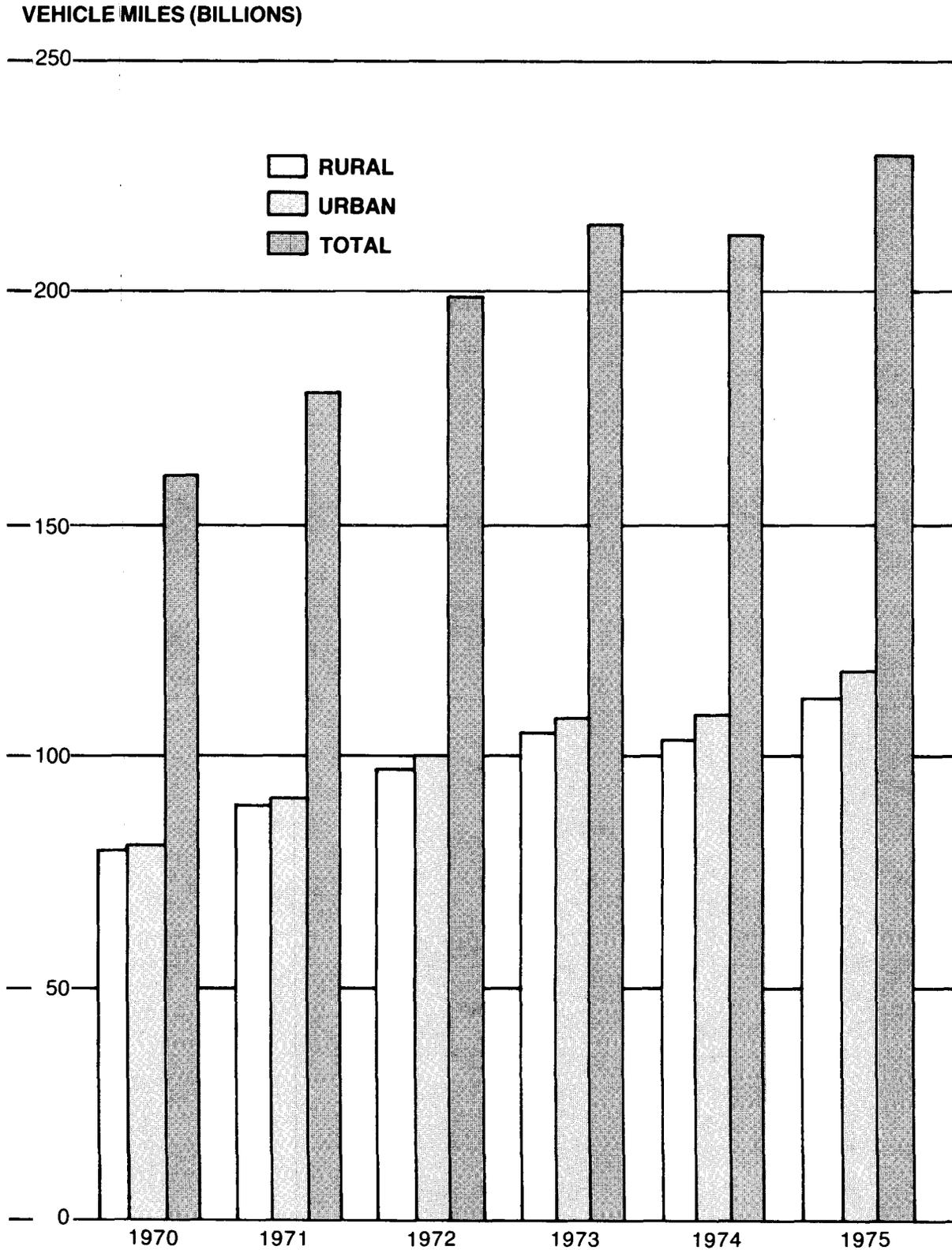
FIGURE 1
TOTAL MOTOR VEHICLE TRAVEL, 1950-1977

VEHICLE MILES (BILLIONS)



On the interstate highway system there is a nearly equal division of rural and urban travel. (See Figure 2.) The "Interstate Highway System" is synonymous with the FHWA category "Interstate (Final)."

FIGURE 2
MOTOR VEHICLE TRAVEL ON THE INTERSTATE HIGHWAY SYSTEM, 1970-1975



As shown in Figures 3 and 4, urban travel on the primary highway system is on the increase while urban travel on the secondary highway system is declining. "Primary Highway System" includes the FHWA categories of "Interstate Traveled Way," "Other Federal Aid Primary Highways," and "Federal Aid Urban Highways." "Secondary Highway Systems" includes the FHWA categories of "State and Local Federal Aid Highways," "Other State Highways," and "Local Roads and Streets."

FIGURE 3
MOTOR VEHICLE TRAVEL ON PRIMARY HIGHWAY SYSTEMS, 1970-1975

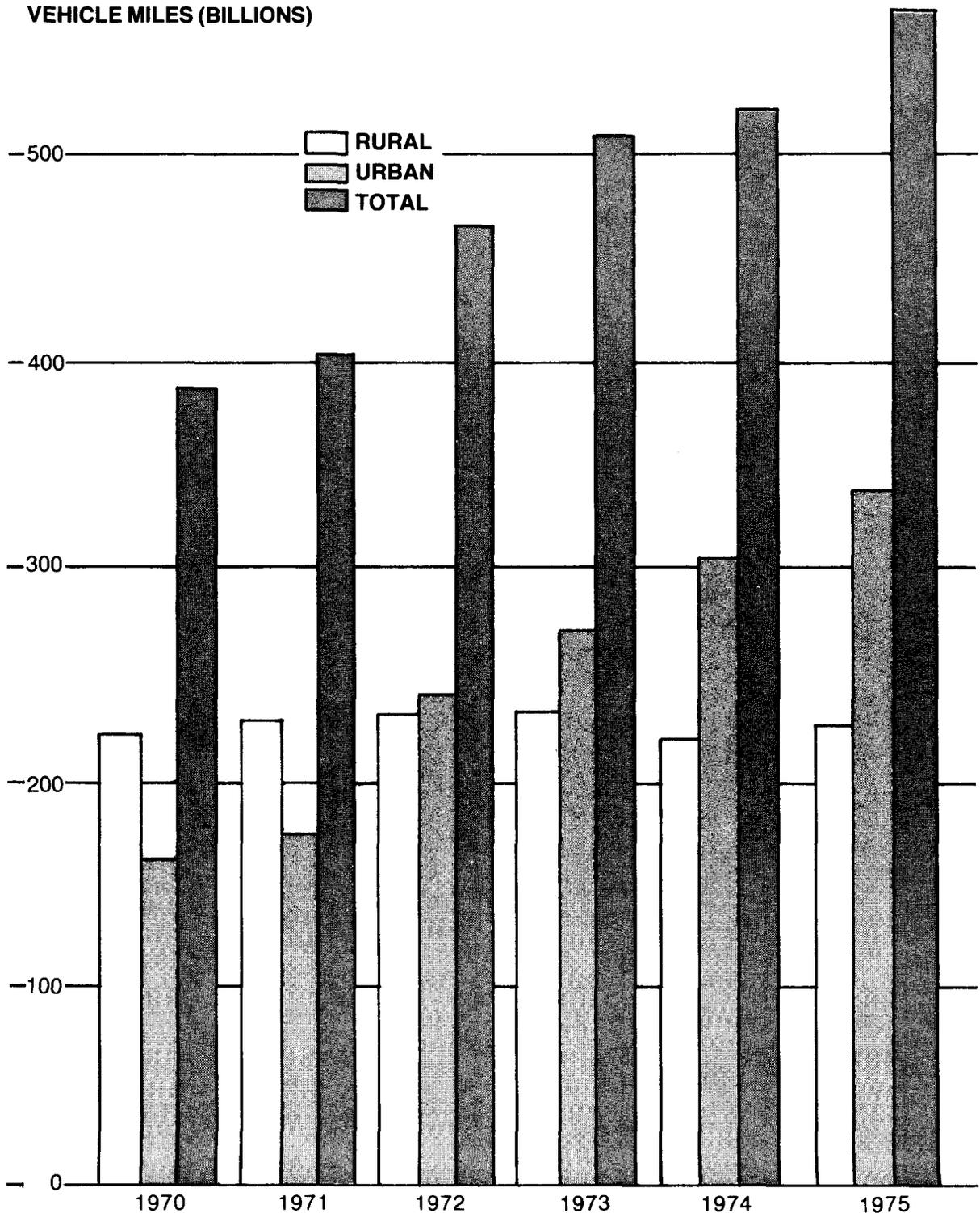
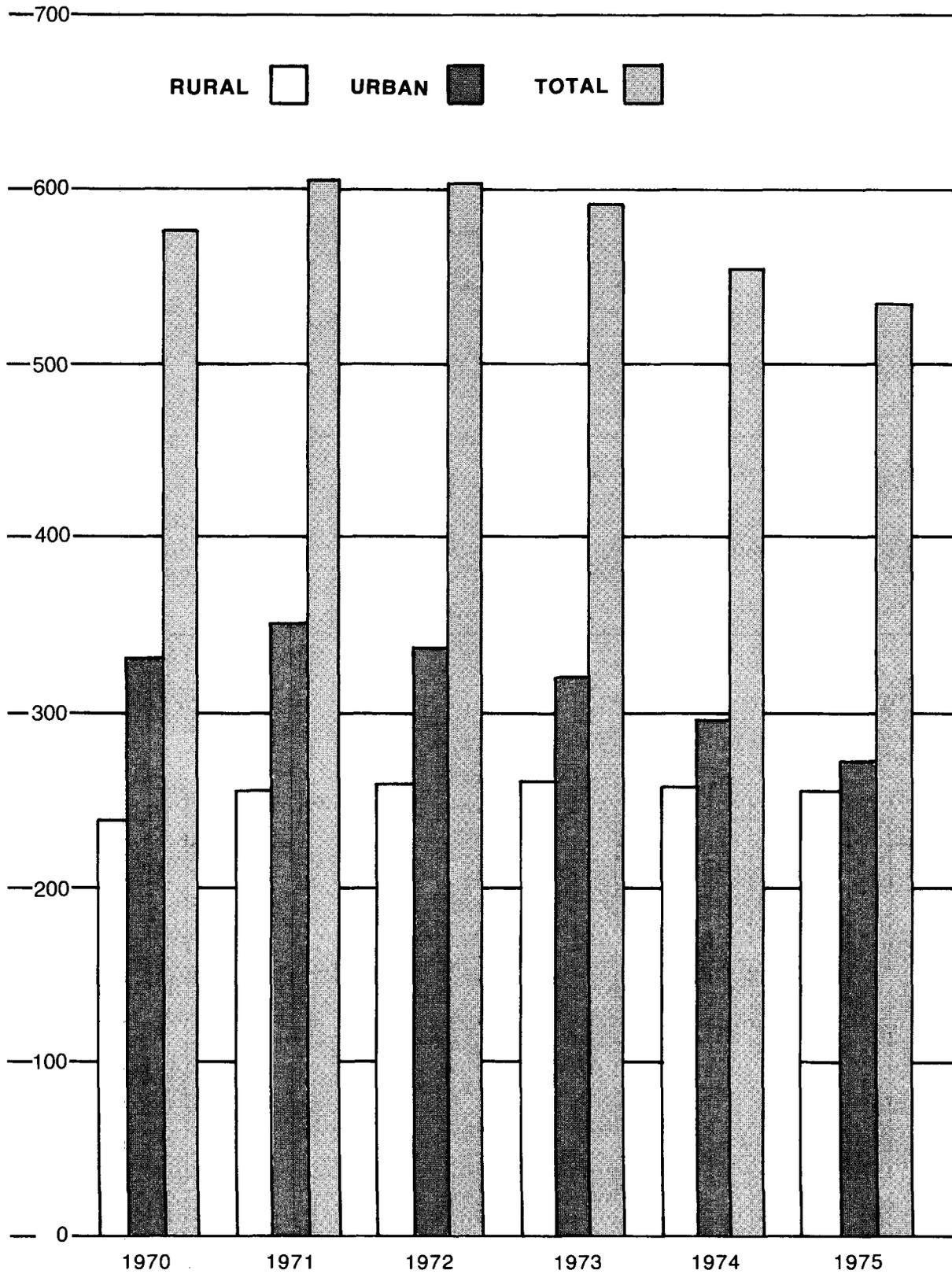


FIGURE 4
MOTOR VEHICLE TRAVEL ON SECONDARY HIGHWAY SYSTEMS, 1970-1975

VEHICLE MILES (BILLIONS)



In 1976, total motor vehicle travel increased 5.89 percent over that of 1975. The vehicle types showing the largest percentage increase were school buses, single-unit trucks and commercial buses. (See Table 1.)

TABLE 1
COMPARISON OF NUMBER OF MILES TRAVELED ANNUALLY BY TYPE OF VEHICLE, 1975-1976

| TYPE OF VEHICLE | TOTAL TRAVEL (MILLIONS) | | | AVERAGE ANNUAL TRAVEL PER VEHICLE | | |
|-----------------|----------------------------|-----------|----------|--------------------------------------|--------|----------|
| | 1975 | 1976 | % CHANGE | 1975 | 1976 | % CHANGE |
| PASSENGER CARS | 1,028,121 | 1,074,000 | 4.46 | 9,634 | 9,733 | 1.03 |
| MOTORCYCLES | 22,351 | 22,452 | .45 | 4,500 | 4,500 | .00 |
| COMM. BUSES | 2,648 | 2,899 | 9.48 | 28,230 | 29,948 | 6.09 |
| SCHOOL BUSES | 2,500 | 2,862 | 14.48 | 6,788 | 7,502 | 10.52 |
| S-U TRUCKS | 218,894 | 247,895 | 13.25 | 8,882 | 9,355 | 5.33 |
| M-U TRUCKS | 55,560 | 59,055 | 6.29 | 49,125 | 48,366 | -1.55 |
| ALL | 1,330,776 | 1,409,163 | 5.89 | 10,009 | 9,817 | -1.92 |

The following tabulations contain supporting data for the displays presented, along with current and historical information on motor vehicle mileage by month, and motor vehicle type.

TABLE 2
ESTIMATED MONTHLY MOTOR VEHICLE TRAVEL IN THE UNITED STATES

| SYSTEM | MONTH | | | | | | | | | | | |
|--|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
| 1976 INDIVIDUAL MONTHLY VEHICLE-MILES OF TRAVEL IN BILLIONS | | | | | | | | | | | | |
| MAIN RURAL | 34.2 | 33.3 | 39.3 | 41.3 | 43.8 | 45.4 | 49.8 | 49.9 | 42.8 | 42.5 | 39.4 | 39.2 |
| LOCAL RURAL | 9.4 | 9.3 | 10.7 | 11.7 | 12.8 | 12.8 | 13.6 | 13.6 | 12.5 | 12.4 | 11.2 | 10.5 |
| URBAN | 58.8 | 55.9 | 64.3 | 64.0 | 66.7 | 65.9 | 67.5 | 68.5 | 64.2 | 66.3 | 62.4 | 63.3 |
| ALL SYSTEMS | 102.5 | 98.5 | 114.3 | 117.0 | 123.3 | 124.1 | 130.9 | 131.9 | 119.4 | 121.2 | 113.0 | 113.0 |
| 1976 CUMULATIVE MONTHLY VEHICLE-MILES OF TRAVEL IN BILLIONS | | | | | | | | | | | | |
| MAIN RURAL | 34.2 | 67.6 | 106.9 | 148.2 | 192.0 | 237.4 | 287.2 | 337.1 | 379.9 | 422.4 | 461.8 | 501.0 |
| LOCAL RURAL | 9.4 | 18.7 | 29.4 | 41.1 | 53.9 | 66.7 | 80.3 | 93.9 | 106.3 | 118.8 | 129.9 | 140.5 |
| URBAN | 58.8 | 114.7 | 179.0 | 243.0 | 309.7 | 375.6 | 443.1 | 511.5 | 575.7 | 642.0 | 704.4 | 767.7 |
| ALL SYSTEMS | 102.5 | 201.0 | 315.3 | 432.3 | 555.6 | 679.7 | 810.6 | 942.5 | 1061.9 | 1183.1 | 1296.1 | 1409.2 |

TABLE 3
AVERAGE NUMBER OF MILES TRAVELED ANNUALLY BY TYPE OF VEHICLE

| Year | | PASSENGER | MOTOR- | COMMERCIAL | SCHOOL | SINGLE-UNIT | MULTI-UNIT | ALL MOTOR |
|------|---------------------------------|-----------|--------|------------|--------|-------------|------------|-----------|
| | | CARS | CYCLES | BUSES | BUSES | TRUCKS | TRUCKS | VEHICLES |
| 1972 | TOTAL MILES TRAVELED (MILLIONS) | 986,407 | 17,091 | 2,750 | 2,359 | 213,122 | 46,613 | 1,265,097 |
| | PERCENT OF TOTAL | 77.77 | 1.35 | .22 | .19 | 16.80 | 3.68 | 100.00 |
| | AVERAGE ANNUAL TRAVEL | 10,184 | 4,500 | 30,968 | 7,414 | 10,525 | 47,084 | 10,323 |
| 1973 | TOTAL MILES TRAVELED (MILLIONS) | 1,016,645 | 19,594 | 2,548 | 2,412 | 219,128 | 48,019 | 1,316,728 |
| | PERCENT OF TOTAL | 77.70 | 1.50 | .19 | .18 | 16.75 | 3.67 | 100.00 |
| | AVERAGE ANNUAL TRAVEL | 9,990 | 4,498 | 28,469 | 7,178 | 9,868 | 46,716 | 10,127 |
| 1974 | TOTAL MILES TRAVELED (MILLIONS) | 990,721 | 22,347 | 2,610 | 2,450 | 211,460 | 56,059 | 1,283,325 |
| | PERCENT OF TOTAL | 77.06 | 1.74 | .20 | .19 | 16.45 | 4.36 | 100.00 |
| | AVERAGE ANNUAL TRAVEL | 9,448 | 4,500 | 28,968 | 6,865 | 8,981 | 51,667 | 9,513 |
| 1975 | TOTAL MILES TRAVELED (MILLIONS) | 1,028,121 | 22,351 | 2,648 | 2,500 | 218,894 | 55,560 | 1,330,776 |
| | PERCENT OF TOTAL | 77.30 | 1.68 | .20 | .19 | 16.46 | 4.18 | 100.00 |
| | AVERAGE ANNUAL TRAVEL | 9,634 | 4,500 | 28,230 | 6,788 | 8,882 | 49,125 | 10,009 |
| 1976 | TOTAL MILES TRAVELED (MILLIONS) | 1,074,000 | 22,452 | 2,899 | 2,862 | 247,895 | 59,055 | 1,409,163 |
| | PERCENT OF TOTAL | 76.22 | 1.59 | .21 | .20 | 17.59 | 4.19 | 100.00 |
| | AVERAGE ANNUAL TRAVEL | 9,733 | 4,500 | 29,948 | 7,502 | 9,355 | 48,366 | 9,817 |

TABLE 4
TOTAL MOTOR VEHICLE TRAVEL BY HIGHWAY SYSTEM, 1968-1975

| ALL TRAVEL | INTERSTATE HIGHWAY SYSTEMS | | | PRIMARY HIGHWAY SYSTEMS | | | SECONDARY HIGHWAY SYSTEMS | | | |
|------------|----------------------------|-------|-------|-------------------------|-------|-------|---------------------------|-------|-------|-------|
| | TOTAL YEAR (BILLIONS) | RURAL | URBAN | TOTAL | RURAL | URBAN | TOTAL | RURAL | URBAN | TOTAL |
| 1968 | 1,019.7 | 62.3 | 64.0 | 126.3 | 215.2 | 146.9 | 362.1 | 228.4 | 303.0 | 531.4 |
| 1969 | 1,066.1 | 71.8 | 73.2 | 145.0 | 219.0 | 155.6 | 374.5 | 235.9 | 316.6 | 552.4 |
| 1970 | 1,114.1 | 79.5 | 81.5 | 161.0 | 221.0 | 160.6 | 381.6 | 241.3 | 335.9 | 577.2 |
| 1971 | 1,186.3 | 89.5 | 90.1 | 180.0 | 228.2 | 171.9 | 400.1 | 255.2 | 352.0 | 607.1 |
| 1972 | 1,265.1 | 99.0 | 100.6 | 199.6 | 229.3 | 236.3 | 465.5 | 262.6 | 341.4 | 604.0 |
| 1973 | 1,316.7 | 107.1 | 108.5 | 215.6 | 231.4 | 275.4 | 506.8 | 263.8 | 323.6 | 587.4 |
| 1974 | 1,283.3 | 104.6 | 109.3 | 213.9 | 220.4 | 302.3 | 522.7 | 258.7 | 294.2 | 552.9 |
| 1975 | 1,330.8 | 112.0 | 118.3 | 230.3 | 226.6 | 338.7 | 565.4 | 262.0 | 272.5 | 534.5 |

TABLE 5
RURAL, URBAN, AND TOTAL MOTOR VEHICLE TRAVEL, 1950-1977 (VEHICLE MILES, BILLIONS)

| YEAR | RURAL | URBAN | TOTAL |
|------|-------|-------|---------|
| 1950 | 240.0 | 218.2 | 458.2 |
| 1951 | 268.4 | 222.7 | 491.1 |
| 1952 | 289.5 | 224.1 | 513.6 |
| 1953 | 308.4 | 236.1 | 544.4 |
| 1954 | 314.4 | 247.6 | 562.0 |
| 1955 | 330.5 | 275.1 | 605.6 |
| 1956 | 344.0 | 287.2 | 631.2 |
| 1957 | 350.3 | 296.7 | 647.0 |
| 1958 | 357.6 | 307.1 | 664.7 |
| 1959 | 376.7 | 323.8 | 700.5 |
| 1960 | 387.3 | 331.6 | 718.8 |
| 1961 | 397.9 | 339.6 | 737.5 |
| 1962 | 398.8 | 368.1 | 766.9 |
| 1963 | 420.0 | 385.4 | 805.4 |
| 1964 | 441.4 | 405.1 | 846.5 |
| 1965 | 463.8 | 423.9 | 887.6 |
| 1966 | 477.1 | 450.8 | 927.9 |
| 1967 | 481.9 | 484.1 | 966.0 |
| 1968 | 505.9 | 513.8 | 1,019.7 |
| 1969 | 524.3 | 541.8 | 1,066.1 |
| 1970 | 539.5 | 574.6 | 1,114.1 |
| 1971 | 572.9 | 610.6 | 1,183.5 |
| 1972 | 590.7 | 674.4 | 1,265.1 |
| 1973 | 604.7 | 712.0 | 1,316.7 |
| 1974 | 583.8 | 699.5 | 1,283.3 |
| 1975 | 601.1 | 729.6 | 1,330.8 |
| 1976 | 630.8 | 778.3 | 1,409.2 |
| 1977 | 669.0 | 796.5 | 1,465.5 |

Data for 1976, and 1977 preliminary estimates are provided by the Highway Statistics Division, Federal Highway Administration, U.S. Department of Transportation, Nassif Building, 400 7th Street, SW., Washington, D.C., 20590, (202) 426-0180.

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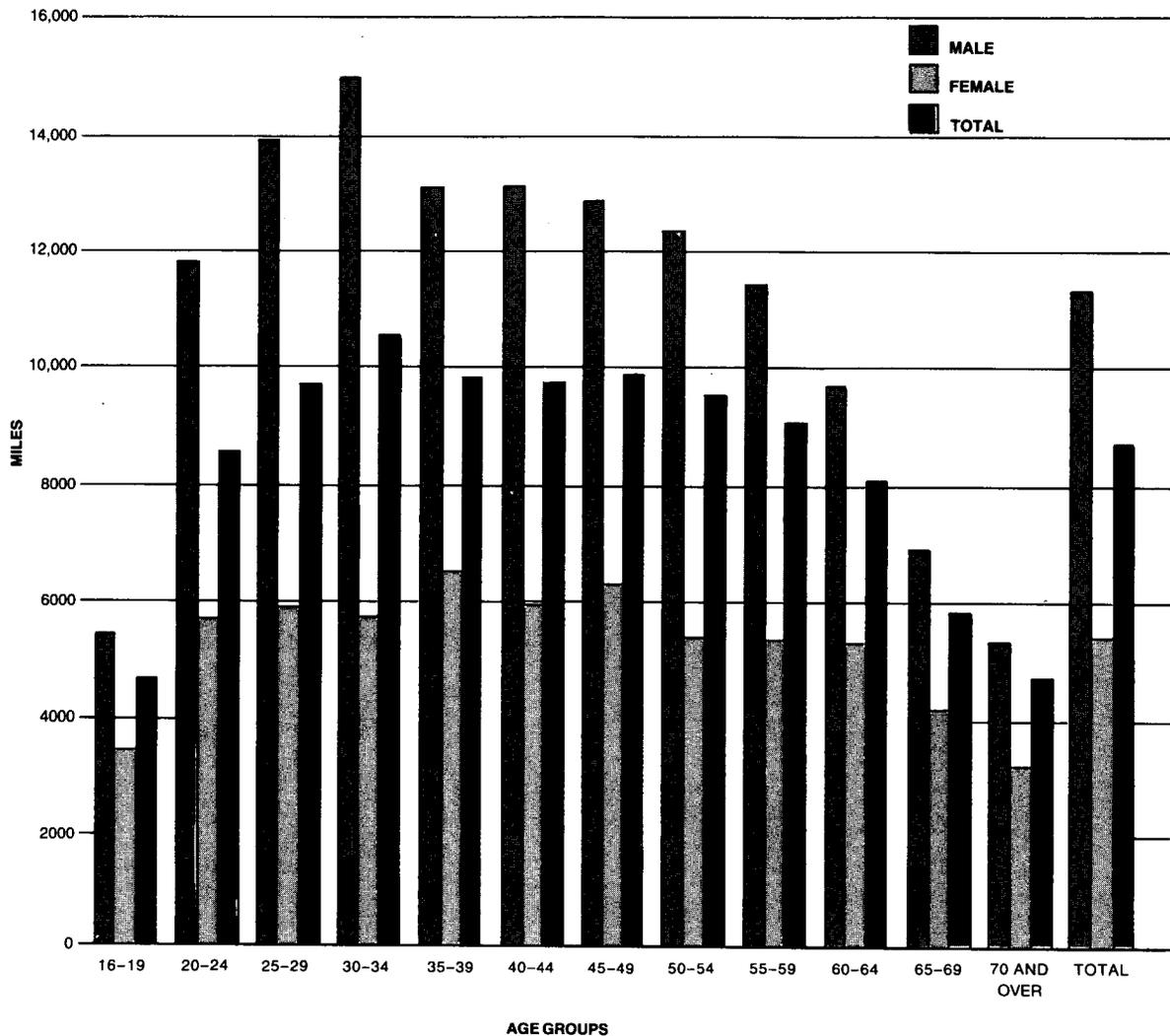


PASSENGER CAR USAGE CHARACTERISTICS

The Nationwide Personal Transportation Survey conducted by the Bureau of the Census during 1969-70 was designed to obtain up-to-date information on national patterns of travel. Selected results of this survey are presented in this section.

The average mileage for all automobile drivers was 8,685 miles per year. Mileage varied from a high of 10,274 miles per year for the 30-34 age group to a low of 4,633 miles per year for the 16-19 age group. The average mileage for males was 11,352 per year, more than double the 5,411 miles per year for the average female driver. (See Figure 1.)

**FIGURE 1
ESTIMATED AVERAGE ANNUAL MILES DRIVEN PER LICENSED DRIVER BY AGE AND SEX***



*See page I(5)7.

Person Trips by Age and Sex

A person trip is a one-way trip by private motor vehicle or some form of public transportation, excluding walk trips. In each age group, males made a greater proportion of trips as automobile drivers than did women. The total for all ages showed that males were at the wheel for around 60 percent of their trips. Females were at the wheel about 40 percent of their trips. (See Table 1.)

TABLE 1
PERCENT DISTRIBUTION OF ANNUAL AUTOMOBILE TRIPS BY AGE AND SEX†

| AGE GROUP | TOTAL TRIPS BY ALL MODES FOR EACH AGE GROUP = 100% | | | | | | | | | |
|-------------|--|-----------|------------|---------|-------|---------|-----------|------------|---------|-------|
| | MALES | | | | | FEMALES | | | | |
| | DRIVER | PASSENGER | AUTOMOBILE | OTHER | TOTAL | DRIVER | PASSENGER | AUTOMOBILE | OTHER | TOTAL |
| | | TOTAL | MODES | PERCENT | | | TOTAL | MODES | PERCENT | |
| 5-13 | 0 | 70 | 70 | 30 | 100 | 0 | 74 | 74 | 26 | 100 |
| 14-15 | 5 | 62 | 67 | 33 | 100 | 4 | 65 | 69 | 31 | 100 |
| 16-20 | 60 | 25 | 85 | 15 | 100 | 38 | 49 | 87 | 13 | 100 |
| 21-25 | 76 | 14 | 90 | 10 | 100 | 47 | 45 | 92 | 8 | 100 |
| 26-29 | 78 | 10 | 88 | 12 | 100 | 57 | 36 | 93 | 7 | 100 |
| 30-39 | 77 | 8 | 85 | 15 | 100 | 63 | 32 | 95 | 5 | 100 |
| 40-49 | 75 | 8 | 83 | 17 | 100 | 55 | 37 | 92 | 8 | 100 |
| 50-59 | 76 | 9 | 85 | 15 | 100 | 45 | 46 | 91 | 9 | 100 |
| 60-64 | 74 | 8 | 82 | 18 | 100 | 38 | 50 | 88 | 12 | 100 |
| 65-69 | 74 | 11 | 85 | 15 | 100 | 41 | 47 | 88 | 12 | 100 |
| 70 AND OVER | 70 | 19 | 89 | 11 | 100 | 29 | 66 | 95 | 5 | 100 |
| TOTAL | 61 | 22 | 83 | 17 | 100 | 41 | 47 | 88 | 12 | 100 |

†See page I(5)7.

Purpose of Trips

Thirty-three percent of automobile mileage was spent in social and recreational travel. Since occupancy was generally higher during such travel, this 33 percent of vehicle miles represents almost 43 percent of the passenger miles of exposure to possible accident. (See Table 2.)

TABLE 2
DISTRIBUTION OF AUTOMOBILE TRIPS, VEHICLE-MILES OF TRAVEL AND PASSENGER MILES
BY TRIP PURPOSE†§

| TRIP PURPOSE | PERCENT OF AUTOMOBILE | | AVERAGE OCCUPANTS | PERCENT OF PASSENGER MILES |
|----------------------------------|-----------------------|--------|-------------------|----------------------------|
| | TRIPS | TRAVEL | | |
| EARNING A LIVING | | | | |
| HOME-TO-WORK | 31.9 | 33.7 | 1.4 | 24.0 |
| RELATED BUSINESS | 4.3 | 7.9 | 1.6 | 6.4 |
| SUBTOTAL | 36.2 | 41.6 | | 30.4 |
| FAMILY BUSINESS | | | | |
| SHOPPING | 15.2 | 7.5 | 2.0 | 7.6 |
| MEDICAL AND DENTAL | 1.8 | 1.6 | 2.1 | 1.7 |
| OTHER | 14.0 | 10.2 | 1.9 | 9.9 |
| SUBTOTAL | 31.0 | 19.3 | | 19.2 |
| CIVIC, EDUCATIONAL AND RELIGIOUS | 9.3 | 4.9 | 2.5 | 6.3 |
| SOCIAL AND RECREATIONAL | | | | |
| VISITING FRIENDS AND RELATIVES | 8.9 | 12.1 | 2.3 | 14.1 |
| PLEASURE DRIVING | 1.4 | 3.1 | 2.7 | 4.3 |
| VACATIONS | 0.1 | 2.5 | 3.3 | 4.2 |
| OTHER | 12.0 | 15.3 | 2.6 | 20.3 |
| SUBTOTAL | 22.4 | 33.0 | | 42.9 |
| OTHER AND UNKNOWN | 1.1 | 1.2 | 1.9 | 1.2 |
| TOTAL | 100.0 | 100.0 | — | 100.0 |

†§See page I(5)7.

Trip Length

The average trip length for all purposes was shortest for personal services workers (6.7) and longest for the occupational group other proprietors, managers and officials (11.4 miles). (See Table 3.)

TABLE 3
AVERAGE TRIP LENGTH (MILES) BY MAJOR TRIP PURPOSE AND DRIVER OCCUPATION ‡

| OCCUPATIONAL GROUPS | TRIP PURPOSE | | | | TOTAL |
|--|------------------------|--------------------|--|-------------------------------|-------|
| | EARNING A LIVING | FAMILY BUSINESS | CIVIC, EDUCATIONAL, AND RELIGIOUS | SOCIAL AND RECREATIONAL | |
| PROFESSIONALS AND SEMI-PROFESSIONALS | 10.1 | 5.9 | 5.3 | 17.3 | 9.9 |
| FARMERS AND FARM MANAGERS | 7.3 | 11.2 | 5.7 | 17.0 | 10.9 |
| OTHER PROPRIETORS, MANAGERS AND OFFICIALS | 12.3 | 6.8 | 3.7 | 18.0 | 11.4 |
| STORE AND OFFICE CLERKS AND SALESMEN | 10.3 | 5.1 | 4.9 | 10.4 | 8.7 |
| CRAFTSMEN, FOREMEN, SKILLED LABORERS, ETC. | 11.3 | 5.1 | 3.5 | 17.7 | 10.4 |
| OPERATORS, SEMISKILLED AND UNSKILLED WORKERS AND LABORERS | 9.0 | 5.5 | 4.6 | 12.2 | 8.4 |
| PROTECTIVE SERVICES | 7.8 | 6.1 | 7.7 | 17.1 | 8.9 |
| PERSONAL SERVICES | 8.3 | 4.5 | 4.3 | 7.1 | 6.7 |
| ALL DRIVERS | 10.2 | 5.6 | 4.7 | 13.1 | 8.9 |

‡See page I(5)7.

More than 60 percent of all automobile trips, are 5 miles or less and represent 15.7 percent of all vehicle miles traveled. Trips of 21 miles and over account for 8.3 percent of all trips and 47.4 percent of all vehicle miles of travel. (See Table 4.)

TABLE 4
PERCENT OF AUTOMOBILE TRIPS BY TRIP LENGTH (MILES) AND PLACE OF RESIDENCE ‡

| PLACE OF RESIDENCE | TRIP LENGTH—MILES | | | | | TOTAL | TRIP LENGTH—MILES | | | | TOTAL | AVERAGE TRIP LENGTH (MILES) | PERCENT OF VEHICLE-MILES OF TRAVEL |
|----------------------|-------------------|------|-------|-----------|-------|-------|-------------------|------|-------|-----------|-------|-----------------------------------|--|
| | 5 & LESS | 6-10 | 11-20 | 21 & OVER | TOTAL | | 5 & LESS | 6-10 | 11-20 | 21 & OVER | | | |
| UNINCORPORATED AREAS | 55.1 | 21.6 | 15.1 | 8.2 | 100.0 | 13.8 | 16.2 | 23.5 | 46.5 | 100.0 | 9.8 | 37.8 | |
| INCORPORATED PLACES | | | | | | | | | | | | | |
| UNDER 5,000 | 61.7 | 12.5 | 14.8 | 11.0 | 100.0 | 10.2 | 9.6 | 22.1 | 58.1 | 100.0 | 10.4 | 8.7 | |
| 5,000-24,999 | 67.5 | 14.2 | 11.0 | 7.3 | 100.0 | 16.8 | 14.9 | 21.2 | 47.1 | 100.0 | 7.9 | 19.8 | |
| 25,000-49,999 | 70.9 | 12.0 | 10.2 | 6.9 | 100.0 | 19.6 | 12.3 | 20.0 | 48.1 | 100.0 | 7.8 | 6.2 | |
| 50,000-99,999 | 70.3 | 15.1 | 7.8 | 6.8 | 100.0 | 19.5 | 15.0 | 14.7 | 50.8 | 100.0 | 8.1 | 7.0 | |
| 100,000-999,999 | 65.7 | 18.4 | 10.8 | 5.1 | 100.0 | 21.2 | 19.3 | 21.5 | 38.0 | 100.0 | 7.7 | 14.1 | |
| 1,000,000 & OVER | 55.3 | 21.6 | 13.4 | 9.7 | 100.0 | 10.6 | 15.3 | 17.9 | 56.2 | 100.0 | 11.7 | 6.4 | |
| ALL PLACES | 66.2 | 15.4 | 11.1 | 7.3 | 100.0 | 16.8 | 15.0 | 20.2 | 48.0 | 100.0 | 8.4 | 62.2 | |
| ALL AREAS & PLACES | 62.4 | 16.8 | 12.5 | 8.3 | 100.0 | 15.7 | 15.4 | 21.5 | 47.4 | 100.0 | 8.9 | 100.0 | |

‡See page I(5)7.

Household Trip Characteristics

Passenger car travel for the more densely populated areas is inversely related to population size, indicating decreasing use of the automobile and increasing reliance on public transit and walking as population density increases. (See Table 5.)

TABLE 5
PASSENGER CAR TRIPS AND VEHICLE-MILES OF TRAVEL BY HOUSEHOLDS IN INCORPORATED PLACES†‡

| POPULATION SIZE | TRIPS PER HOUSEHOLD | | VEHICLE-MILES PER HOUSEHOLD | | PERCENT OF VEHICLE-MILES OF TRAVEL |
|----------------------------|------------------------|-------|--------------------------------|-------|---------------------------------------|
| | ANNUAL | DAILY | ANNUAL | DAILY | |
| UNDER 5,000 | 1,056 | 2.9 | 10,976 | 30.1 | 8.7 |
| 5,000–24,999 | 1,870 | 5.1 | 14,696 | 40.2 | 19.8 |
| 25,000–49,999 | 1,479 | 4.1 | 11,601 | 31.8 | 6.2 |
| 50,000–99,999 | 1,344 | 3.7 | 10,840 | 29.7 | 7.0 |
| 100,000–999,999 | 1,226 | 3.4 | 9,399 | 25.8 | 14.1 |
| 1,000,000 AND OVER | 700 | 1.9 | 8,210 | 22.5 | 6.4 |
| ALL INCORPORATED PLACES | 1,321 | 3.6 | 11,105 | 30.4 | 62.2 |

†‡See page I(5)7.

Mode of Transportation

More than 70 percent of all workers from 18 to 40 years of age used the automobile for home-to-work transportation. In the 16–17 age group, over 60 percent of the workers rode to work in automobiles, more often as passengers, and more than one out of six walked. Workers 40 years of age and older preferred the automobile for home-to-work commuting, although the use of the automobile decreased with increasing age. The use of public transportation was greatest by workers 70 years of age and older. (See Table 6.)

TABLE 6
PERCENT OF EMPLOYED PERSONS BY MODE OF HOME-TO-WORK TRANSPORTATION**

| MODE OF TRANSPORTATION | | | | | | |
|------------------------|------------|-----------|-------|--------------------------|------|-------|
| AGE GROUP | AUTOMOBILE | | | PUBLIC TRANSPORTATION | WALK | OTHER |
| | DRIVER | PASSENGER | TOTAL | | | |
| 16–17 | 30.7 | 32.9 | 63.6 | 9.1 | 15.2 | 12.1 |
| 18–20 | 48.9 | 23.7 | 72.6 | 8.6 | 6.2 | 12.6 |
| 21–25 | 48.0 | 23.9 | 71.9 | 9.2 | 4.4 | 14.5 |
| 26–29 | 51.7 | 20.9 | 72.6 | 6.2 | 2.3 | 18.9 |
| 30–34 | 55.9 | 15.2 | 71.1 | 5.4 | 3.6 | 19.9 |
| 35–39 | 53.7 | 17.2 | 70.9 | 5.4 | 4.0 | 19.7 |
| 40–49 | 52.0 | 16.0 | 68.0 | 6.7 | 4.5 | 20.8 |
| 50–59 | 43.9 | 19.8 | 63.7 | 6.9 | 5.2 | 24.2 |
| 60–69 | 39.0 | 18.0 | 57.0 | 9.5 | 7.7 | 25.8 |
| 70 AND OLDER | 27.7 | 12.0 | 39.7 | 13.1 | 7.4 | 39.8 |
| ALL WORKERS | 48.4 | 19.0 | 67.4 | 7.2 | 5.0 | 20.4 |

**See page I(5)7.

In 1969 to 1970 data for the Nationwide Personal Transportation Survey were collected by the Bureau of the Census of the Department of Commerce for the Federal Highway Administration of the Department of Transportation.

Data for 1976 and 1977 preliminary estimates are provided by the Highway Statistics Division, Federal Highway Administration (FHWA), U.S. Department of Transportation, Nassif Building, 400 7th Street, SW., Washington, D.C. 20590, (202) 426-0180.

For more information about this and other Highway Safety Facts, write the National Center for Statistics and Analysis, NRD-34, National Highway Traffic Safety Administration, 2100 Second Street, SW., Washington, D.C. 20590.

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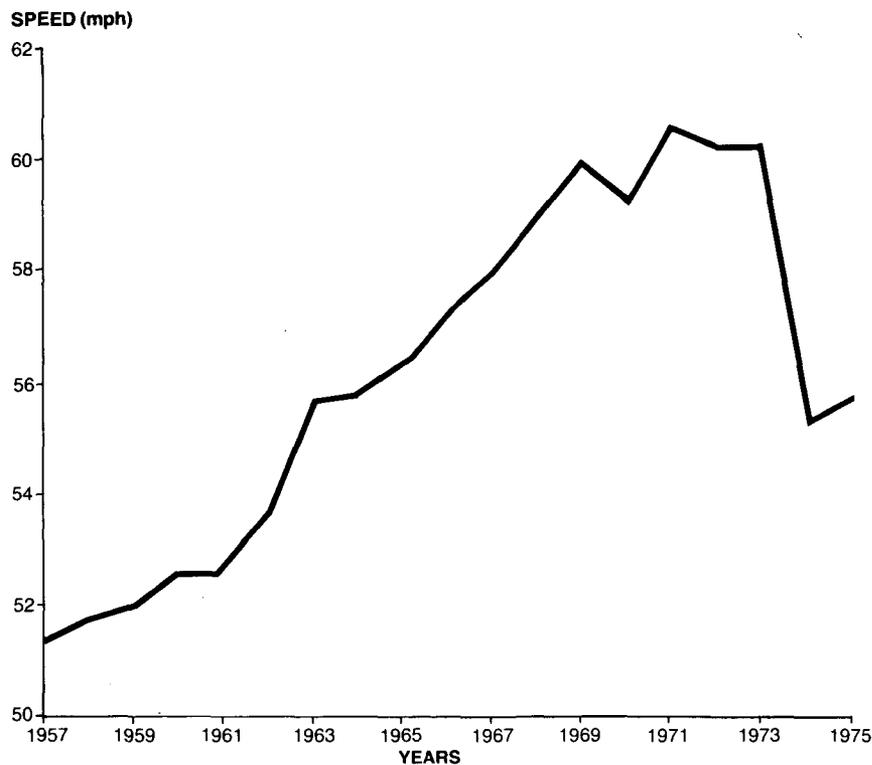


TRAVEL SPEEDS

From 1947 to 1975, annual spot speed study programs* were conducted by state highway departments and data were submitted to the Federal Highway Administration. These annual studies have provided an indicator of free-flowing vehicle speeds on level, straight sections of main rural roads and on urban streets during off-peak periods of the day when traffic densities are low.

*See page I(6)6.

FIGURE 1
AVERAGE FREE-MOVING TRAVEL SPEED OF ALL VEHICLES ON MAIN RURAL ROADS, 1957-1975 †



†See page I(6)6.

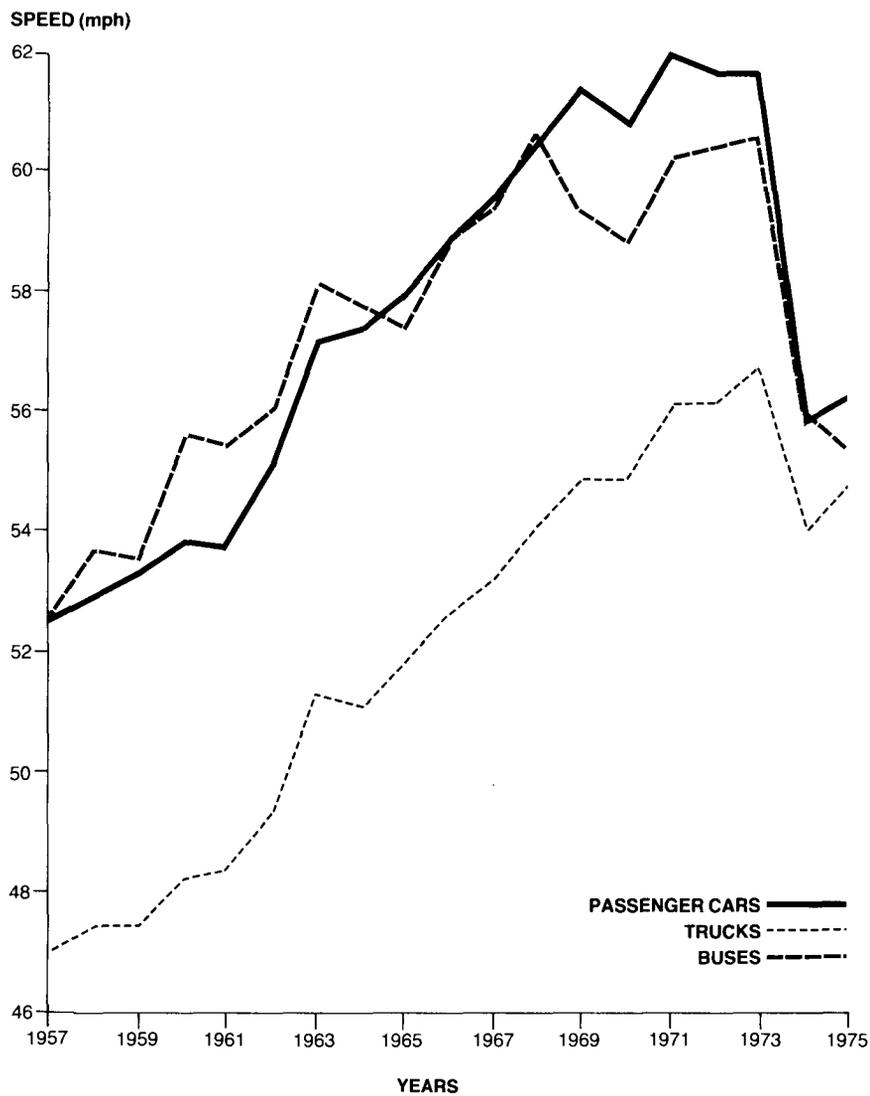
The main rural category includes toll and free sections of completed rural interstate, rural interstate traveled-way, and other rural primary roads. These studies showed that over the 10 years from 1963-73, the average speed of vehicles on main rural roads increased more than 9 percent. During this same period highway fatalities increased 24 percent. ‡ In 1974 the average speed dropped 8 percent below that of 1973. During this same period, highway fatalities dropped 19 percent. ‡ In 1975, the average speed increased slightly but highway fatalities continued to decrease. (See Figure 1.)

‡See page I(6)6.

Prior to 1974, the average speed of buses tended to be 4 to 6 mph below that of passenger cars and trucks. (See Figure 2.) With the 1974 imposition of 55 mph speed limits the average speed within each vehicle category is within 2 mph of the speed limit.

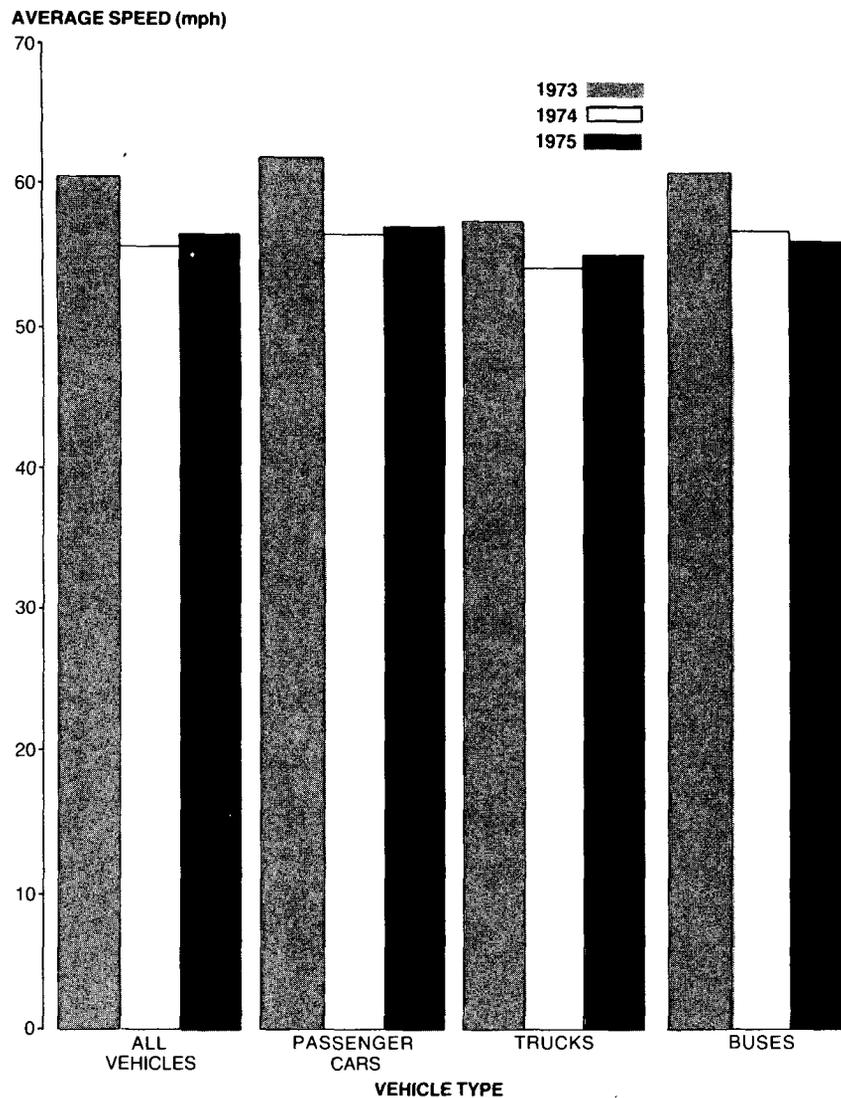
† See page I(6)6.

FIGURE 2
AVERAGE SPEEDS OF FREE-MOVING VEHICLES BY VEHICLE TYPE ON MAIN RURAL ROADS, 1957-1975†



† See page I(6)6.

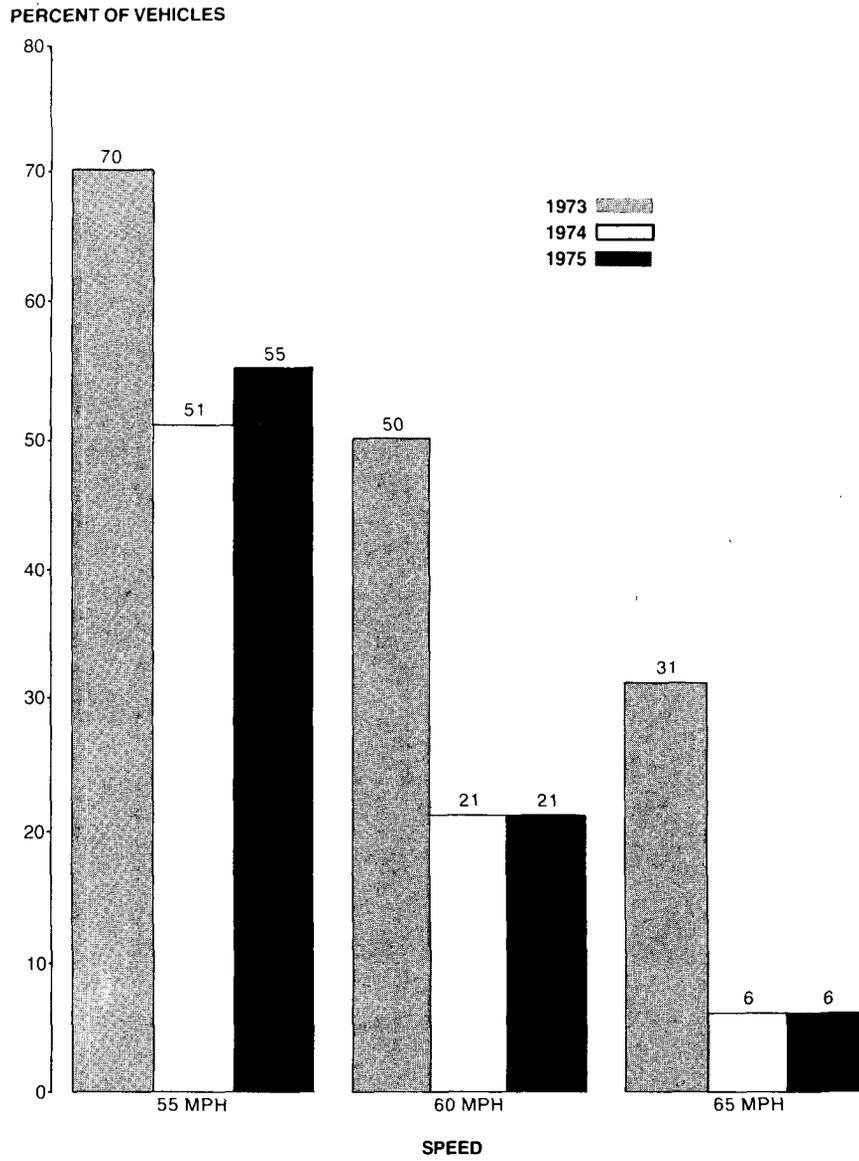
**FIGURE 3
COMPARISON OF AVERAGE SPEED BY VEHICLE TYPE ON MAIN RURAL ROADS§**



§See page I(6)6.

As can be noted above, the 1974 and 1975 speeds of each type of vehicle have remained below those of 1973; however, in 1975 there was an increase over 1974 in the percent of all vehicles that exceeded 55 mph. (See Figure 4.) There was no change from 1974 to 1975 in the percent traveling over 60 mph and 65 mph; in both years the percentage exceeding those speeds remained far below the 1973 figures.

FIGURE 4
PERCENT OF VEHICLES EXCEEDING SELECTED SPEEDS ON MAIN RURAL ROADS§



§See page I(6)6.

The following tabulations are supporting data for displays presented.

TABLE 1
COMPARISON OF AVERAGE SPEEDS AND PERCENTAGE DISTRIBUTIONS OF VEHICLES
EXCEEDING VARIOUS SPEEDS-MAIN RURAL ROADS§

| SPEED CATEGORY mph | VEHICLE TYPE | | | | | | | | | | | |
|---|--------------|-------------|-------------|----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | ALL | | | PASSENGER CARS | | | TRUCKS | | | BUSES | | |
| | 1973 | 1974 | 1975 | 1973 | 1974 | 1975 | 1973 | 1974 | 1975 | 1973 | 1974 | 1975 |
| AVG. SPEED | 60.3 | 55.3 | 55.8 | 61.6 | 55.8 | 56.2 | 56.6 | 54.0 | 54.8 | 60.4 | 56.0 | 55.4 |
| PERCENTAGE OF VEHICLES EXCEEDING VARIOUS SPEEDS | | | | | | | | | | | | |
| 35 mph | 100 | 100 | 100 | 100 | 100 | 100 | 99 | 99 | 100 | 100 | 99 | 99 |
| 40 mph | 98 | 98 | 98 | 98 | 98 | 99 | 96 | 97 | 98 | 98 | 98 | 98 |
| 45 mph | 94 | 93 | 95 | 95 | 94 | 95 | 90 | 90 | 93 | 95 | 92 | 93 |
| 50 mph | 84 | 79 | 83 | 86 | 81 | 84 | 76 | 74 | 79 | 83 | 82 | 77 |
| 55 mph | 70 | 51 | 55 | 75 | 54 | 58 | 58 | 44 | 49 | 72 | 55 | 50 |
| 60 mph | 50 | 21 | 21 | 56 | 23 | 23 | 33 | 15 | 16 | 58 | 24 | 24 |
| 65 mph | 31 | 6 | 6 | 37 | 7 | 7 | 15 | 4 | 4 | 36 | 9 | 6 |
| 70 mph | 14 | 2 | 1 | 18 | 2 | 1 | 4 | 1 | 1 | 9 | 2 | 1 |
| 75 mph | 5 | 0 | 0 | 6 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 |

§See page I(6)6.

x

TABLE 2
AVERAGE FREE-MOVING TRAVEL SPEED ON MAIN RURAL ROADS
BY VEHICLE TYPE 1957-1975†

| YEAR | ALL VEHICLES | PASSENGER CARS | TRUCKS | BUSES |
|------|-----------------|-------------------|--------|-------|
| 1957 | 51.4 | 52.6 | 47.0 | 52.6 |
| 1958 | 51.7 | 52.8 | 47.3 | 53.6 |
| 1959 | 52.0 | 53.3 | 47.3 | 53.5 |
| 1960 | 52.6 | 53.8 | 48.2 | 55.5 |
| 1961 | 52.6 | 53.7 | 48.3 | 55.3 |
| 1962 | 53.8 | 55.1 | 49.4 | 56.0 |
| 1963 | 55.8 | 57.1 | 51.3 | 58.1 |
| 1964 | 55.9 | 57.3 | 51.0 | 57.8 |
| 1965 | 56.4 | 57.8 | 51.8 | 57.4 |
| 1966 | 57.3 | 58.8 | 52.6 | 58.8 |
| 1967 | 58.0 | 59.5 | 53.1 | 59.4 |
| 1968 | 59.0 | 60.4 | 54.0 | 60.5 |
| 1969 | 60.0 | 61.3 | 54.9 | 59.4 |
| 1970 | 59.2 | 60.6 | 54.7 | 58.8 |
| 1971 | 60.6 | 62.0 | 56.1 | 60.2 |
| 1972 | 60.3 | 61.6 | 56.2 | 60.3 |
| 1973 | 60.3 | 61.6 | 56.6 | 60.4 |
| 1974 | 55.3 | 55.8 | 54.0 | 56.0 |
| 1975 | 55.8 | 56.2 | 54.8 | 55.4 |

†See page I(6)6.

Data for 1976 and 1977 preliminary estimates are provided by the Highway Statistics Division, Federal Highway Administration (FHWA), U.S. Department of Transportation, Nassif Building, 400 7th Street, SW., Washington, D.C. 20590, (202) 426-0180.

For more information about this and other Highway Safety Facts, write the National Center for Statistics and Analysis, NRD-34, National Highway Traffic Safety Administration, 2100 Second Street, SW., Washington, D.C. 20590.

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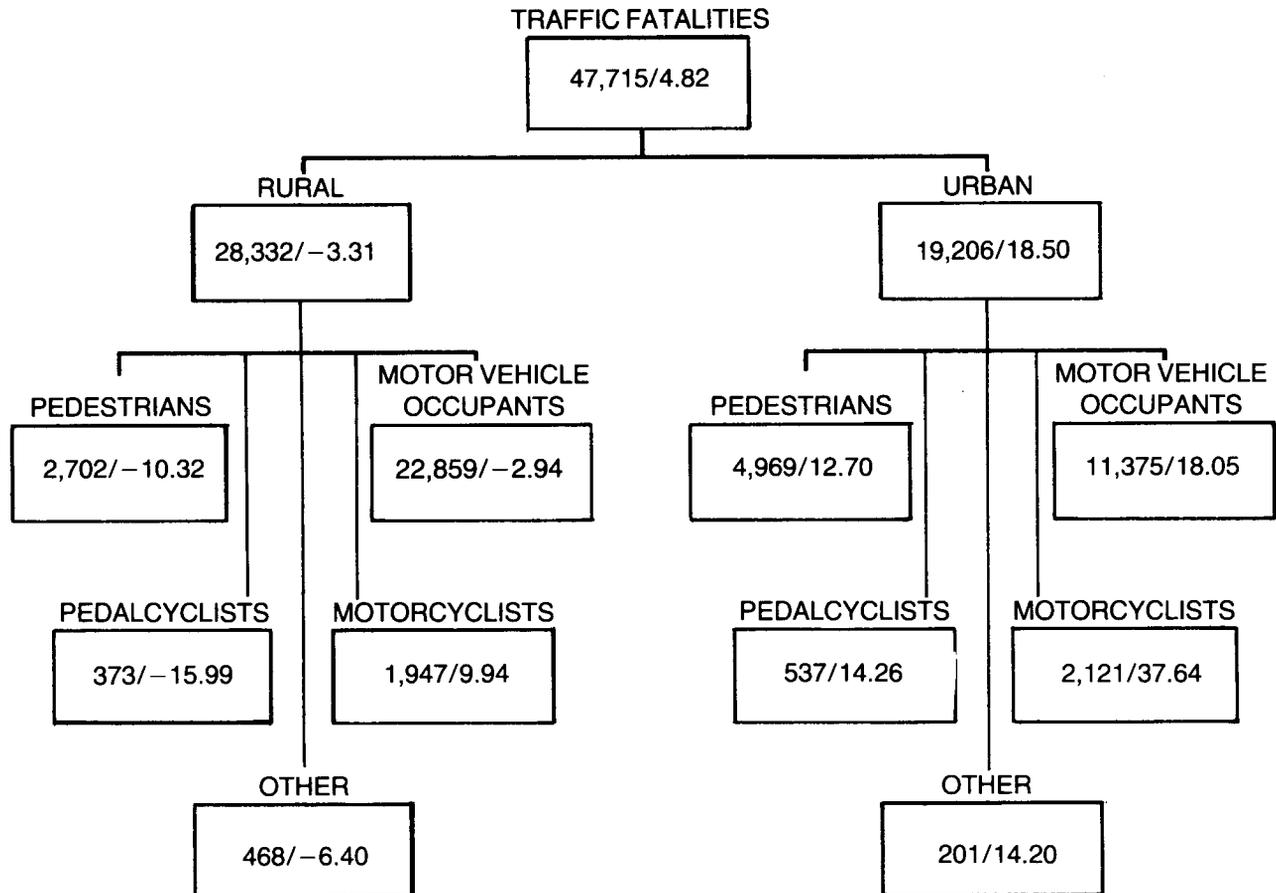
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FATALITIES—GENERAL STATISTICS

In 1977, 47,715 people were killed in motor vehicle accidents occurring on U.S. public trafficways. The 1977 traffic fatalities by urban/rural area are presented in Figure 1 showing urban areas with the highest percentage increase over 1976. However, there was a change between 1976 and 1977 in the Fatal Accident Reporting System's classification of urban and rural areas. Motorcycle fatalities increased by a larger percentage than pedestrian, pedalcyclist, and motor vehicle occupant fatalities in both urban and rural areas.

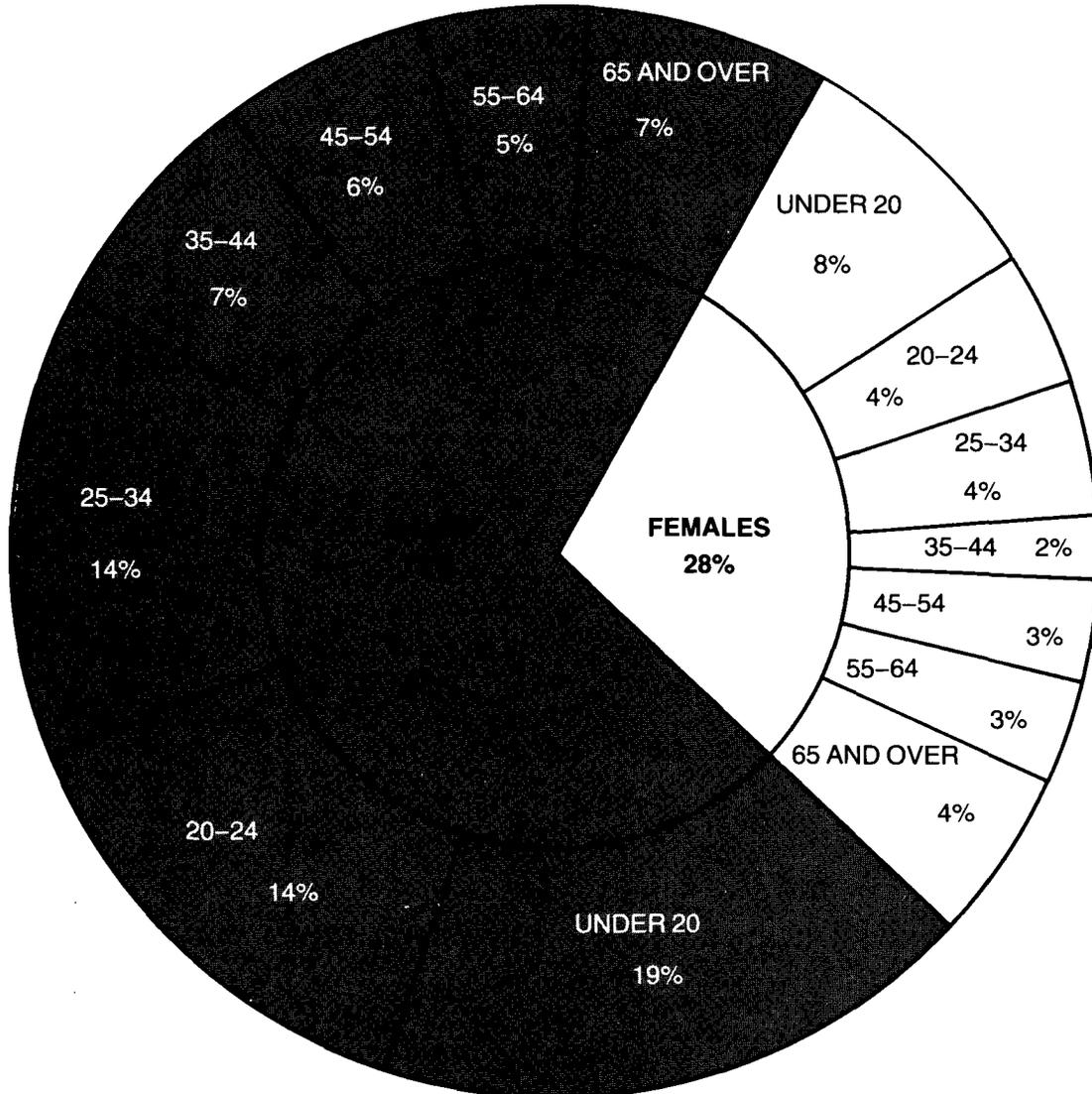
FIGURE 1
TRAFFIC FATALITIES IN 1977 AND PERCENT CHANGE FROM 1976



Age and Sex of Fatalities

As shown in Figure 2, 72 percent of all 1977 traffic fatalities were male. Over one-fourth of the traffic fatalities were under 20 years of age.

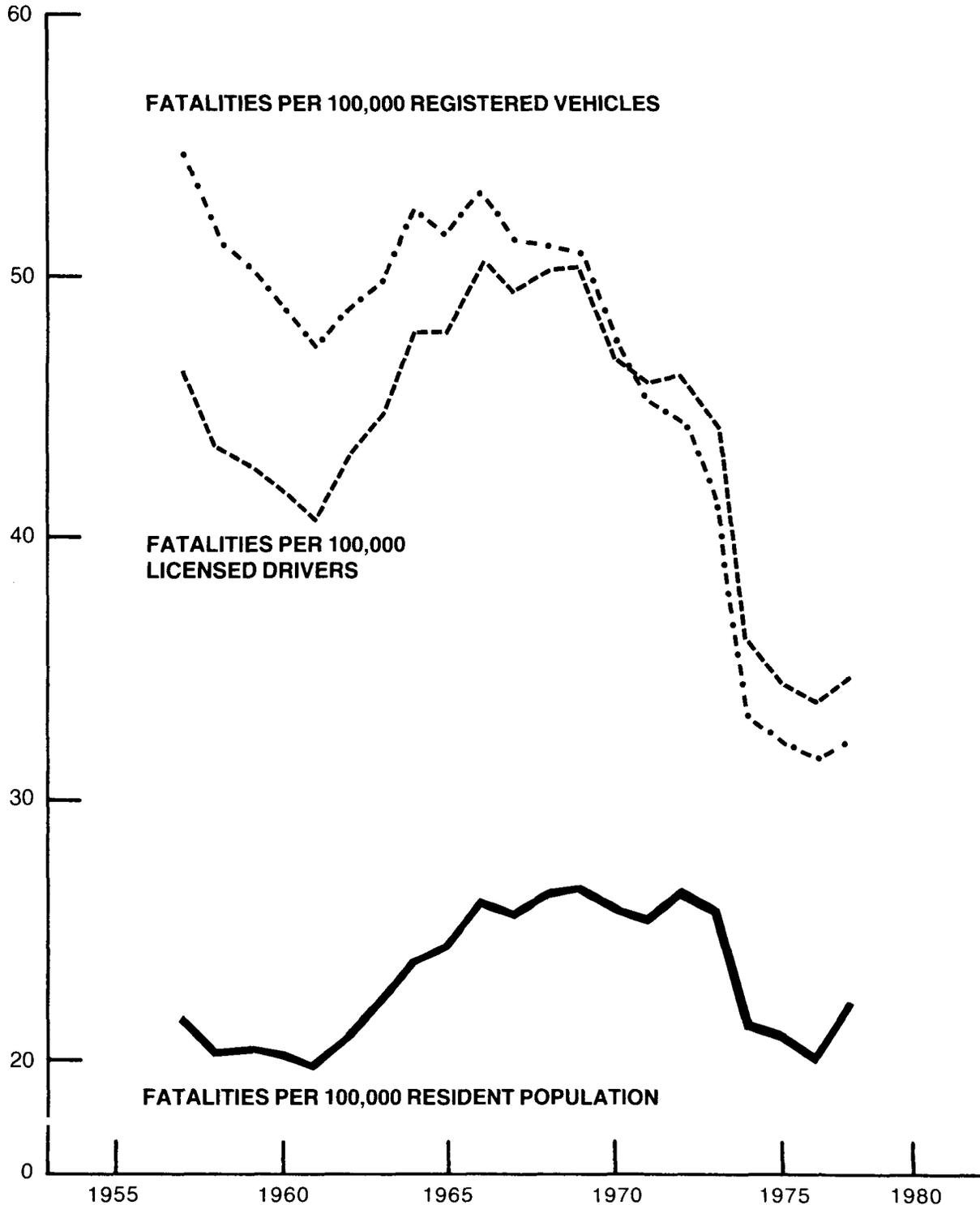
FIGURE 2
MOTOR VEHICLE TRAFFIC ACCIDENT FATALITIES BY AGE AND SEX IN THE UNITED STATES, 1977



Fatality Rates

From 1966 to 1973, the traffic fatalities per registered vehicle and per licensed driver constantly decreased, while the traffic fatalities per population remained fairly constant. The effects of the gasoline shortage at the end of 1973, the corresponding lower speed limits and fewer vehicle miles of travel can be seen in Figure 3.

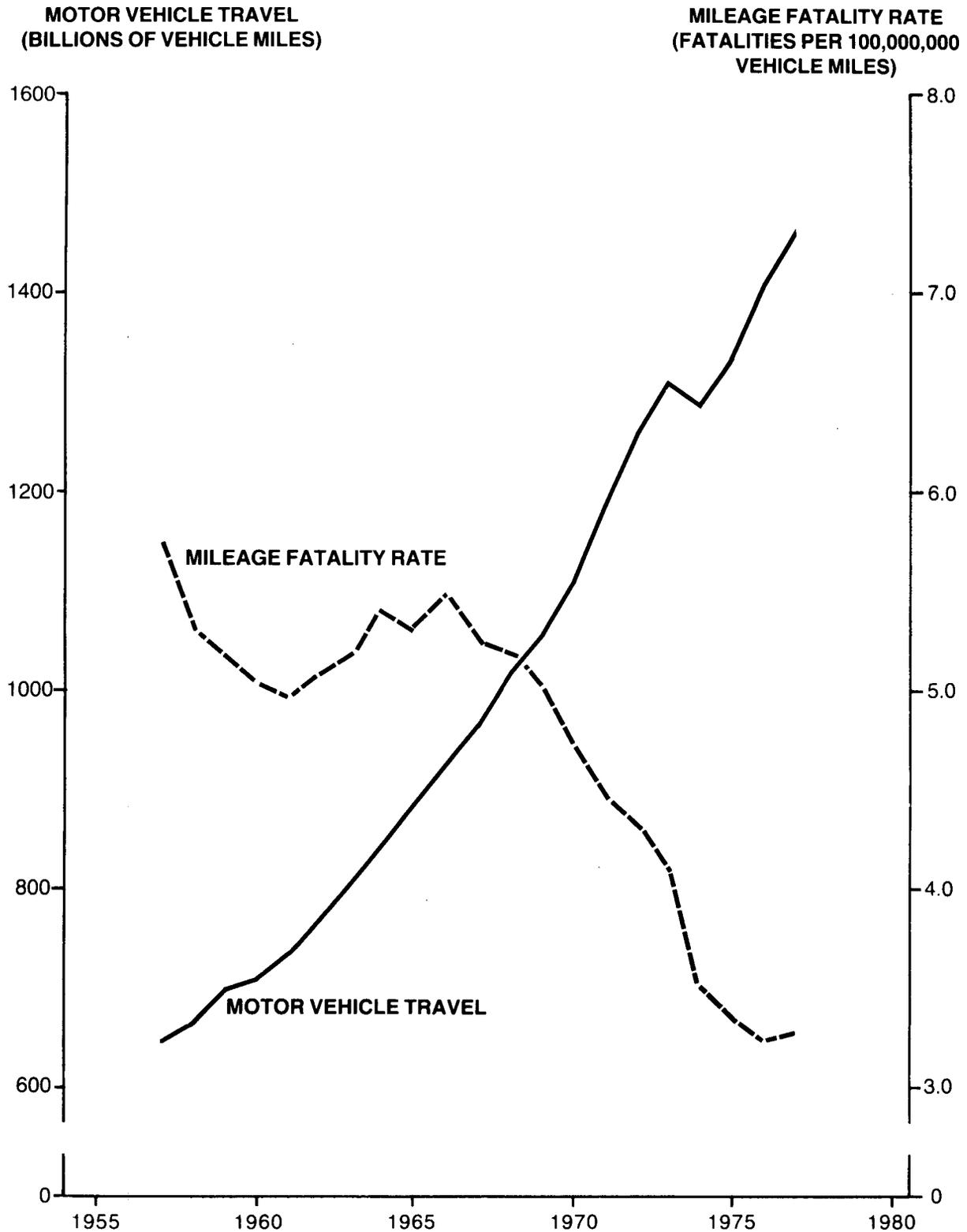
FIGURE 3
TREND IN MOTOR VEHICLE TRAFFIC FATALITY RATES, 1957-1977*



*See page III(1)16.

Improvements in vehicles, roads, and safety of operation have reduced the fatality rate per mile of travel by more than 42 percent since 1957. In 1977, a person traveling 18,000 miles by motor vehicle experienced the same risk of being killed in a traffic accident as a person traveling 10,000 miles in 1957.

FIGURE 4
TRENDS IN VEHICLE MILEAGE AND MILEAGE FATALITY RATE, 1957-1977*

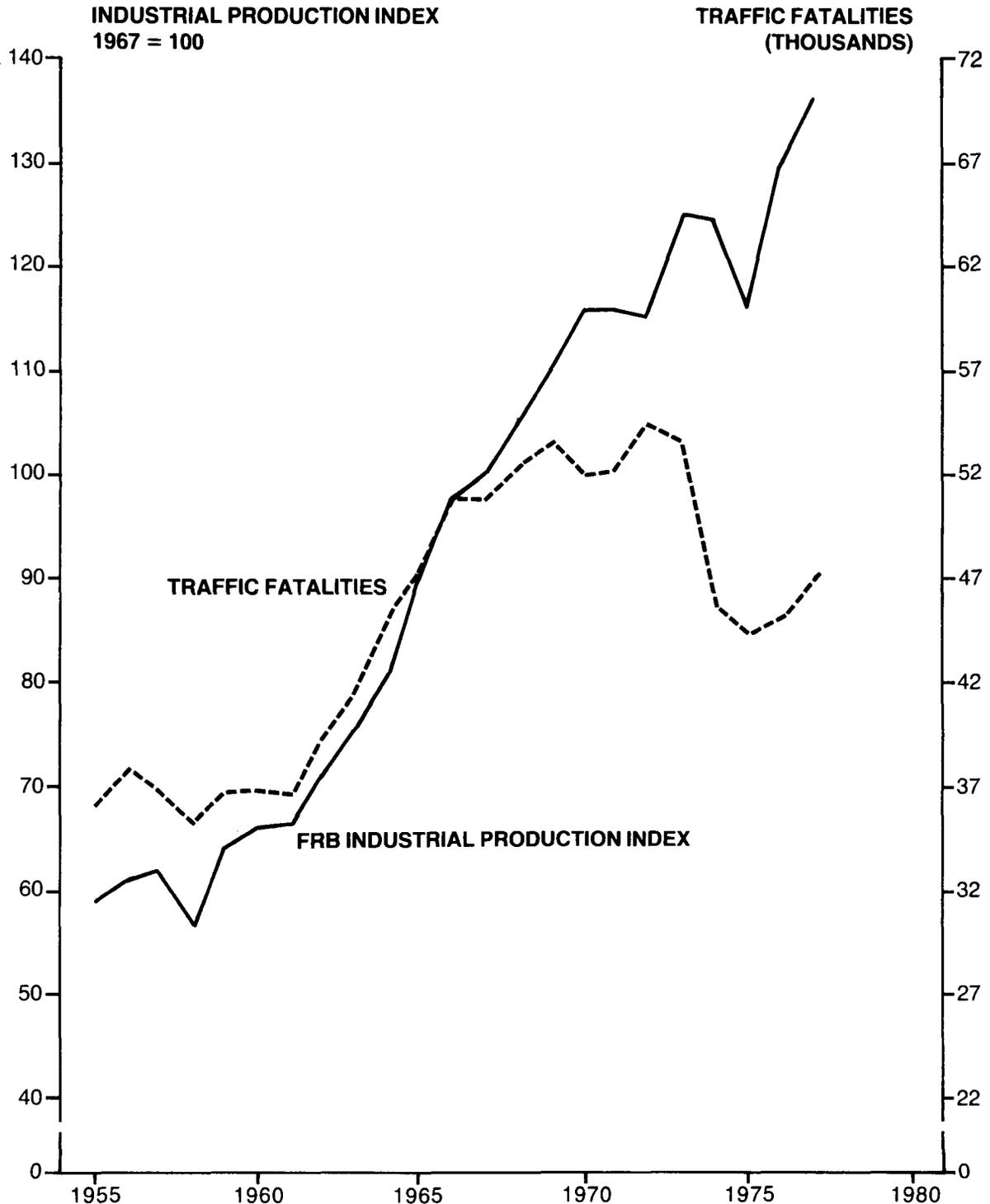


*See page III(1)16.

Industrial Production Index

Production of automobiles, automotive accessories and replacement parts are major components of the U.S. economy. Prior to 1965, the yearly trend in traffic fatalities was correlated with the Federal Reserve Board (FRB) Industrial Production Index. However, since 1965, traffic fatalities have increased at a less rapid rate than the FRB Industrial Production Index. This could be due in part to the addition of safety features in automobiles manufactured since that time.

FIGURE 5
COMPARISON OF TRAFFIC FATALITIES AND INDUSTRIAL PRODUCTION INDEX, U.S., 1957-1977†



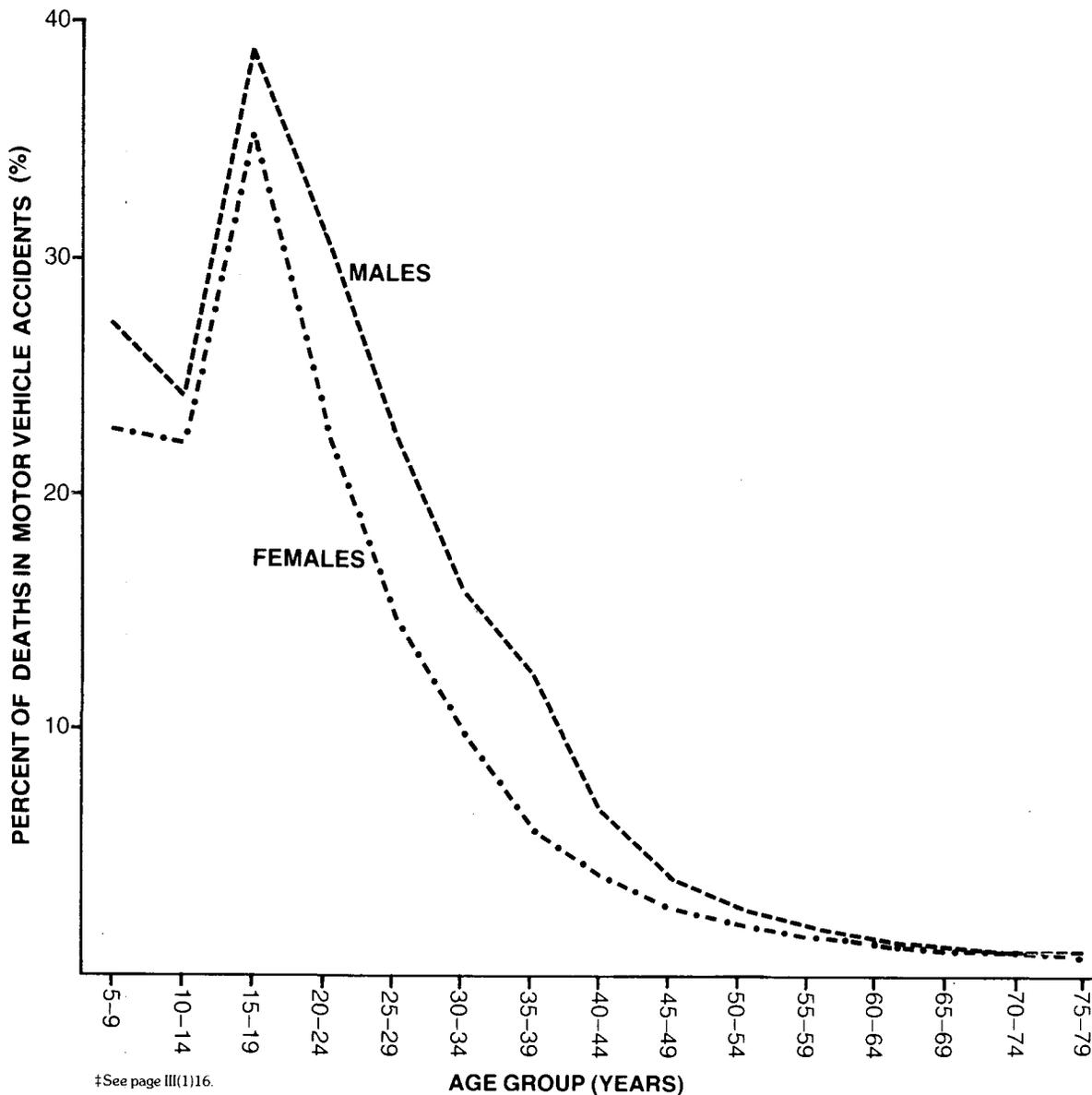
† See page III(1)16.

Causes of Death

Detailed statistics on deaths by specific cause and age of the person are released by the Public Health Service (PHS) in the yearly publication, "Vital Statistics of the United States." These statistics are based on information recorded on death certificates as reported to PHS. The definition of a motor vehicle death, as used by PHS, differs slightly from the NHTSA definition of a traffic fatality. A *traffic fatality* is a death attributable to and occurring within 30 days of a motor vehicle accident on a U.S. public trafficway. Data used in Figures 1 through 5 are traffic fatalities as reported in the 1977 Fatal Accident Reporting System (FARS), maintained by the National Highway Traffic Safety Administration (NHTSA), National Center for Statistics and Analysis (NCSA). A *motor vehicle death* is any death where the cause listed on the death certificate includes "motor vehicle accident." Figures 6 and 7 use this PHS definition.

According to the most recent PHS report, motor vehicle accidents were among the five leading causes of death for both males and females between the ages of 5 and 39, and among the ten leading causes of death until age 55 (see Table 7 for supporting data). As shown in Figure 6, the percentage of all deaths attributed to motor vehicle accidents is higher for males than for females in each age group. Within the 15-19 year old age group, almost 40 percent of the deaths among males were due to motor vehicle accidents.

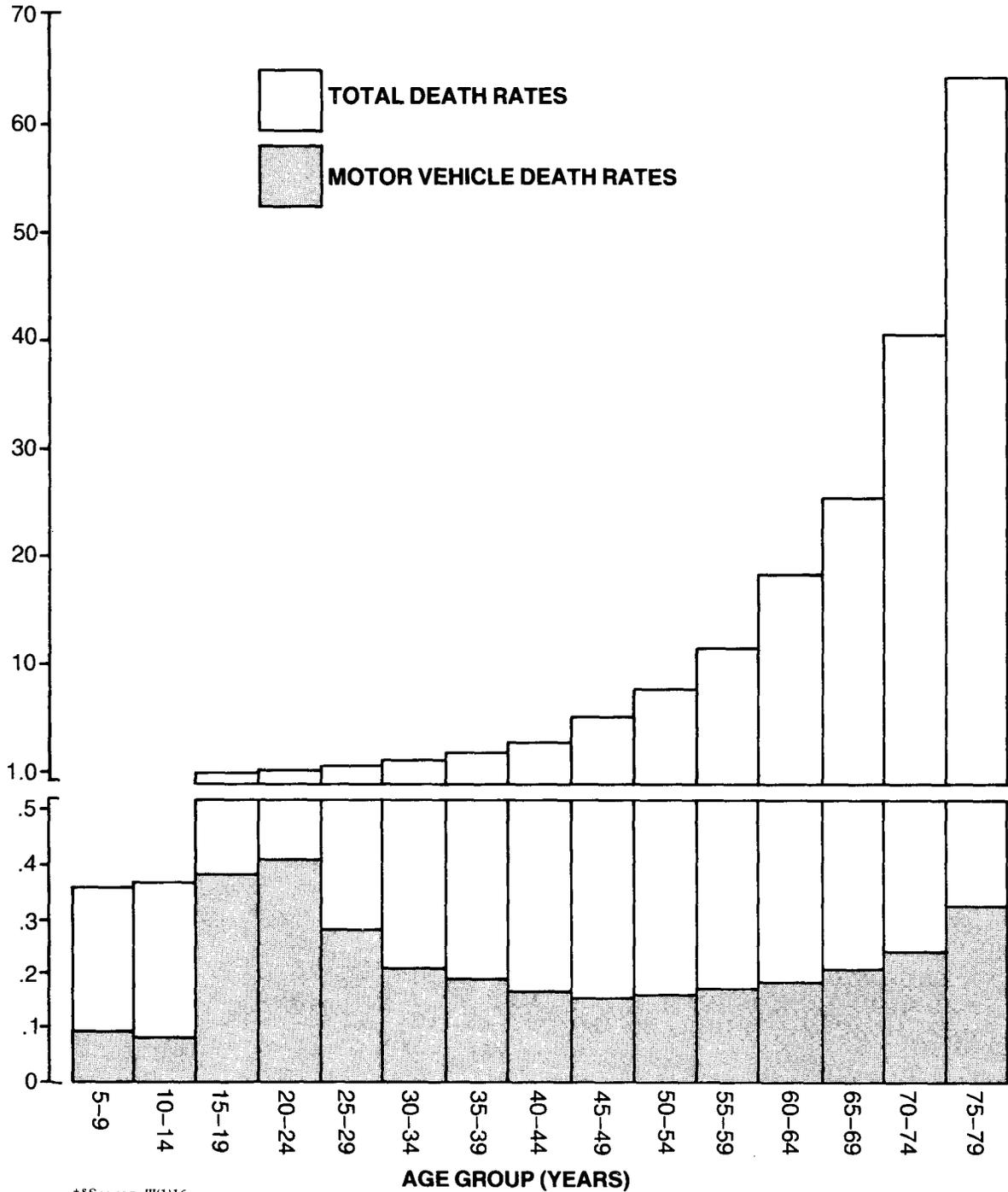
FIGURE 6
PERCENTAGE OF TOTAL DEATHS ATTRIBUTED TO MOTOR VEHICLE ACCIDENTS
FOR EACH SEX AND AGE GROUP, 1975 ‡



The total U.S. death rates (per thousand resident population) and the rates for motor vehicle death only are displayed in Figure 7. The motor vehicle death rates increase sharply at age 15 and remain relatively constant between the ages of 30 and 65. The motor vehicle death rates increase again after age 65.

FIGURE 7
TOTAL U.S. DEATH RATE AND MOTOR VEHICLE DEATH RATE BY AGE GROUP FOR 1975 ‡§

**DEATHS PER THOUSAND
 RESIDENT POPULATION**



‡§ See page III(1)16.

The supporting data for Figures 1-7 and the above discussion are given in Tables 1-7 which follow.

TABLE 1
MOTOR VEHICLE TRAFFIC ACCIDENT FATALITIES
BY AGE AND SEX, UNITED STATES, 1977

| AGE | MALE | FEMALE | TOTAL |
|-------------|--------|--------|--------|
| 0-4 | 645 | 540 | 1,186 |
| 5-9 | 888 | 542 | 1,431 |
| 10-14 | 1,007 | 565 | 1,572 |
| 15-19 | 6,404 | 2,334 | 8,741 |
| 20-24 | 6,957 | 1,848 | 8,806 |
| 25-29 | 4,058 | 1,040 | 5,099 |
| 30-34 | 2,561 | 770 | 3,331 |
| 35-39 | 1,685 | 584 | 2,270 |
| 40-44 | 1,476 | 529 | 2,006 |
| 45-49 | 1,443 | 528 | 1,971 |
| 50-54 | 1,409 | 602 | 2,011 |
| 55-59 | 1,301 | 547 | 1,849 |
| 60-64 | 1,193 | 601 | 1,795 |
| 65-69 | 965 | 547 | 1,513 |
| 70-74 | 841 | 544 | 1,385 |
| 75-79 | 681 | 493 | 1,175 |
| 80-84 | 486 | 314 | 800 |
| 85-89 | 247 | 138 | 385 |
| 90-94 | 54 | 31 | 85 |
| 95 AND OVER | 10 | 4 | 14 |
| NOT STATED | 190 | 98 | 290 |
| TOTAL | 34,501 | 13,199 | 47,715 |

TABLE 2
BASIC FACTS ABOUT HIGHWAY FATALITIES IN THE UNITED STATES*

| | 1967 | 1973 | 1975 | 1976 | AVERAGE ANNUAL %CHANGE 1967-1973 | AVERAGE ANNUAL %CHANGE 1973-1975 | AVERAGE ANNUAL %CHANGE 1975-1976 | AVERAGE ANNUAL %CHANGE 1967-1976 |
|--|---------|---------|---------|---------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| TOTAL REG. M/V (THOUSANDS) | 98,859 | 130,025 | 137,926 | 143,538 | 4.67 | 2.99 | 4.07 | 4.23 |
| AUTOMOBILES | 80,399 | 101,985 | 106,719 | 110,351 | 4.04 | 2.29 | 3.40 | 3.58 |
| TRUCKS | 16,169 | 23,244 | 25,781 | 27,720 | 6.24 | 5.32 | 7.52 | 6.17 |
| BUSES | 338 | 425 | 462 | 478 | 3.89 | 4.28 | 3.50 | 3.93 |
| MOTORCYCLES ETC. | 1,953 | 4,371 | 4,964 | 4,989 | 14.37 | 6.57 | .51 | 10.98 |
| LICENSED DRIVERS (THOUSANDS) | 103,172 | 121,546 | 129,791 | 134,036 | 2.77 | 3.34 | 3.27 | 2.95 |
| % UNDER 25 | 20.9 | 22.2 | 22.6 | 22.4 | 1.08 | .80 | -.93 | .79 |
| % OVER 64 | 7.8 | 9.1 | 9.5 | 9.7 | 2.46 | 2.42 | 2.12 | 2.41 |
| VEHICLE MILEAGE (BILLIONS) | 966 | 1,317 | 1,331 | 1,409 | 5.30 | .53 | 5.89 | 4.28 |
| TRAFFIC FATALITIES | 50,724 | 54,052 | 44,525 | 45,523 | 1.06 | -9.24 | 2.24 | -1.19 |
| TRAFFIC FATALITIES PER 100 MILLION VEHICLE MILES | 5.25 | 4.11 | 3.35 | 3.23 | -4.02 | -9.72 | -3.45 | -5.25 |

*See page III(1)16.

TABLE 3
BASIC STATISTICS ABOUT MOTOR VEHICLE DEATHS IN THE UNITED STATES, 1950-1977*

| | 1950 | 1960 | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| DEATHS | 33,186 | 36,399 | 52,725 | 53,543 | 52,627 | 52,542 | 54,589 | 54,052 | 45,196 | 44,525 | 45,523 | 47,715 |
| MOTOR VEHICLE TRAVEL (BILLIONS OF MILES) | 458 | 719 | 1,020 | 1,066 | 1,114 | 1,186 | 1,265 | 1,317 | 1,283 | 1,331 | 1,409 | 1,465 |
| REGISTERED VEHICLES (100,000) | 496 | 744 | 1,030 | 1,074 | 1,112 | 1,163 | 1,226 | 1,300 | 1,349 | 1,379 | 1,435 | 1,489 |
| RESIDENT POPULATION (100,000) | 1,519 | 1,800 | 1,994 | 2,014 | 2,038 | 2,062 | 2,082 | 2,099 | 2,114 | 2,131 | 2,147 | 2,163 |
| LICENSES IN FORCE (100,000) | 621 | 873 | 1,054 | 1,083 | 1,115 | 1,144 | 1,184 | 1,215 | 1,254 | 1,298 | 1,340 | 1,379 |
| DEATH RATES | | | | | | | | | | | | |
| PER HUNDRED MILLION VEHICLE MILES | 7.24 | 5.06 | 5.17 | 5.02 | 4.72 | 4.43 | 4.32 | 4.11 | 3.52 | 3.35 | 3.23 | 3.26 |
| PER 100,000 REGISTERED VEHICLES | 66.89 | 48.90 | 51.20 | 49.85 | 47.31 | 45.17 | 44.54 | 41.57 | 33.50 | 32.28 | 31.71 | 32.05 |
| PER 100,000 RESIDENT POPULATION | 21.85 | 20.22 | 26.44 | 26.59 | 25.82 | 25.48 | 26.22 | 25.76 | 21.38 | 20.90 | 21.21 | 22.06 |
| PER 100,000 LICENSES IN FORCE | 53.41 | 41.72 | 50.02 | 49.44 | 47.18 | 45.92 | 46.10 | 44.47 | 36.03 | 34.31 | 33.96 | 34.60 |
| VEHICLE RELATIONSHIPS | | | | | | | | | | | | |
| RATIO REGISTERED MOTOR VEHICLES TO DRIVER LICENSES | .80 | .85 | .98 | .99 | 1.00 | 1.02 | 1.03 | 1.07 | 1.08 | 1.06 | 1.07 | 1.08 |
| RATIO REGISTERED MOTOR VEHICLES TO RESIDENT POPULATION | .33 | .41 | .52 | .53 | .55 | .56 | .59 | .62 | .64 | .65 | .67 | .69 |

*See page III(1)16.

TABLE 4
VEHICLE MILEAGE VERSUS MILEAGE DEATH RATE 1950-1977*

| YEAR | MOTOR VEHICLE TRAVEL (BILLIONS OF MILES) | MILEAGE DEATH RATE (PER HUNDRED MILLION MILES) |
|-------------|---|---|
| 1950 | 458 | 7.24 |
| 1951 | 491 | 7.19 |
| 1952 | 514 | 7.03 |
| 1953 | 544 | 6.65 |
| 1954 | 562 | 6.03 |
| 1955 | 606 | 6.06 |
| 1956 | 631 | 6.02 |
| 1957 | 647 | 5.71 |
| 1958 | 665 | 5.32 |
| 1959 | 700 | 5.17 |
| 1960 | 719 | 5.06 |
| 1961 | 738 | 4.92 |
| 1962 | 767 | 5.08 |
| 1963 | 805 | 5.18 |
| 1964 | 847 | 5.39 |
| 1965 | 888 | 5.30 |
| 1966 | 928 | 5.48 |
| 1967 | 966 | 5.25 |
| 1968 | 1,020 | 5.17 |
| 1969 | 1,066 | 5.02 |
| 1970 | 1,114 | 4.72 |
| 1971 | 1,186 | 4.43 |
| 1972 | 1,265 | 4.32 |
| 1973 | 1,317 | 4.11 |
| 1974 | 1,283 | 3.52 |
| 1975 | 1,331 | 3.35 |
| 1976 | 1,409 | 3.23 |
| 1977 | 1,465 | 3.26 |

*See page III(1)16.

**TABLE 5
COMPARISON OF MOTOR VEHICLE DEATHS
AND INDUSTRIAL PRODUCTION INDEX,
UNITED STATES 1950-1977†**

| YEAR | INDUSTRIAL PRODUCTION INDEX 1967=100 | MOTOR VEHICLE FATALITIES (THOUSANDS) |
|-------------|---|---|
| 1950 | 44.9 | 33.2 |
| 1951 | 48.7 | 35.3 |
| 1952 | 50.6 | 36.1 |
| 1953 | 54.8 | 36.2 |
| 1954 | 51.9 | 33.9 |
| 1955 | 58.5 | 36.7 |
| 1956 | 61.1 | 38.0 |
| 1957 | 61.9 | 36.9 |
| 1958 | 57.9 | 35.3 |
| 1959 | 64.8 | 36.2 |
| 1960 | 66.2 | 36.4 |
| 1961 | 66.7 | 36.3 |
| 1962 | 72.2 | 39.0 |
| 1963 | 76.5 | 41.7 |
| 1964 | 81.7 | 45.6 |
| 1965 | 89.2 | 47.1 |
| 1966 | 97.9 | 50.9 |
| 1967 | 100.0 | 50.7 |
| 1968 | 105.7 | 52.7 |
| 1969 | 110.7 | 53.5 |
| 1970 | 106.6 | 52.6 |
| 1971 | 106.8 | 52.5 |
| 1972 | 115.2 | 54.6 |
| 1973 | 125.6 | 54.1 |
| 1974 | 124.7 | 45.2 |
| 1975 | 117.8 | 44.5 |
| 1976 | 129.8 | 45.5 |
| 1977 | 137.0 | 47.7 |

†See page III(1)16.

**TABLE 6
1975 MOTOR VEHICLE COMPONENT AGE-SPECIFIC DEATH RATE‡§**

| AGE GROUP | U.S. RESIDENT POPULATION (THOUSANDS) | MOTOR VEHICLE DEATHS | PERCENT OF ALL DEATHS | TOTAL DEATHS (COMPUTED) |
|------------------|---|-------------------------------------|--------------------------------------|--|
| 5-9 | 17,325 | 1,576 | 25.5 | 6,180 |
| 10-14 | 20,409 | 1,710 | 23.4 | 7,308 |
| 15-19 | 20,953 | 8,052 | 37.9 | 21,245 |
| 20-24 | 19,019 | 7,620 | 29.0 | 26,276 |
| 25-29 | 16,835 | 4,749 | 20.6 | 23,053 |
| 30-34 | 13,926 | 2,931 | 13.9 | 21,086 |
| 35-39 | 11,577 | 2,272 | 9.3 | 24,430 |
| 40-44 | 11,169 | 2,017 | 5.5 | 36,673 |
| 45-49 | 11,781 | 2,001 | 3.3 | 60,636 |
| 50-54 | 11,978 | 2,088 | 2.2 | 94,909 |
| 55-59 | 10,535 | 1,863 | 1.5 | 124,200 |
| 60-64 | 9,239 | 1,711 | 1.0 | 171,100 |
| 65-69 | 8,098 | 1,648 | .8 | 206,000 |
| 70-74 | 5,777 | 1,399 | .6 | 233,167 |
| 75-79 | 4,002 | 1,297 | .5 | 259,400 |

‡§See page III(1)16.

TABLE 7
LEADING CAUSES OF DEATH BY AGE AND SEX, UNITED STATES, 1975†

| AGE GROUP | CAUSE OF DEATH | MALE | | | CAUSE OF DEATH | FEMALE | | |
|----------------------------------|--|----------------|--------------|----------------------------------|--|--------------|--------------|--------------|
| | | RANK | DEATHS | % | | RANK | DEATHS | % |
| 0-4 | CERTAIN CAUSES OF DEATH IN EARLY INFANCY | 1 | 15,319 | 45.2 | CERTAIN CAUSES OF DEATH IN EARLY INFANCY | 1 | 11,276 | 43.9 |
| | CONGENITAL ANOMALIES | 2 | 5,258 | 15.5 | CONGENITAL ANOMALIES | 2 | 4,465 | 17.4 |
| | SYMPTOMS AND ILL-DEFINED CONDITIONS | 3 | 3,231 | 9.5 | SYMPTOMS AND ILL-DEFINED CONDITIONS | 3 | 2,238 | 8.7 |
| | OTHER ACCIDENTS | 4 | 2,859 | 8.4 | OTHER ACCIDENTS | 4 | 2,089 | 8.1 |
| | PNEUMONIA | 5 | 1,468 | 4.3 | PNEUMONIA | 5 | 1,212 | 4.7 |
| | (MOTOR VEHICLE ACCIDENTS) | (6) | (905) | (2.7) | (MOTOR VEHICLE ACCIDENTS) | (6) | (671) | (2.6) |
| 5-9 | MOTOR VEHICLE ACCIDENTS | 1 | 1,013 | 27.3 | MOTOR VEHICLE ACCIDENTS | 1 | 560 | 22.7 |
| | OTHER ACCIDENTS | 2 | 1,016 | 27.3 | OTHER ACCIDENTS | 2 | 444 | 18.0 |
| | MALIGNANT NEOPLASMS (CANCER) | 3 | 518 | 13.9 | MALIGNANT NEOPLASMS (CANCER) | 3 | 411 | 16.7 |
| | CONGENITAL ANOMALIES | 4 | 216 | 5.8 | CONGENITAL ANOMALIES | 4 | 208 | 8.4 |
| | PNEUMONIA | 5 | 80 | 2.2 | PNEUMONIA | 5 | 80 | 3.2 |
| 10-14 | OTHER ACCIDENTS | 1 | 1,625 | 34.3 | MOTOR VEHICLE ACCIDENTS | 1 | 565 | 22.1 |
| | MOTOR VEHICLE ACCIDENTS | 2 | 1,145 | 24.2 | OTHER ACCIDENTS | 2 | 450 | 17.6 |
| | MALIGNANT NEOPLASMS (CANCER) | 3 | 502 | 10.6 | MALIGNANT NEOPLASMS (CANCER) | 3 | 376 | 14.7 |
| | CONGENITAL ANOMALIES | 4 | 174 | 3.7 | CONGENITAL ANOMALIES | 4 | 144 | 5.6 |
| | HOMICIDE | 5 | 150 | 3.2 | HOMICIDE | 5 | 99 | 3.9 |
| 15-19 | MOTOR VEHICLE ACCIDENTS | 1 | 6,089 | 38.9 | MOTOR VEHICLE ACCIDENTS | 1 | 1,963 | 34.9 |
| | OTHER ACCIDENTS | 2 | 3,374 | 21.6 | OTHER ACCIDENTS | 2 | 609 | 10.8 |
| | HOMICIDE | 3 | 1,495 | 9.6 | HOMICIDE | 3 | 513 | 9.1 |
| | SUICIDE | 4 | 1,289 | 8.2 | MALIGNANT NEOPLASMS (CANCER) | 4 | 512 | 9.1 |
| | MALIGNANT NEOPLASMS (CANCER) | 5 | 747 | 4.8 | SUICIDE | 5 | 305 | 5.4 |
| 20-24 | MOTOR VEHICLE ACCIDENTS | 1 | 6,155 | 31.0 | MOTOR VEHICLE ACCIDENTS | 1 | 1,465 | 22.9 |
| | OTHER ACCIDENTS | 2 | 3,798 | 19.1 | HOMICIDE | 2 | 722 | 11.3 |
| | HOMICIDE | 3 | 2,763 | 13.9 | OTHER ACCIDENTS | 3 | 668 | 10.4 |
| | SUICIDE | 4 | 2,498 | 12.6 | SUICIDE | 4 | 644 | 10.1 |
| | MALIGNANT NEOPLASMS (CANCER) | 5 | 879 | 4.4 | MALIGNANT NEOPLASMS (CANCER) | 5 | 563 | 8.8 |
| 25-29 | MOTOR VEHICLE ACCIDENTS | 1 | 3,803 | 22.8 | MOTOR VEHICLE ACCIDENTS | 1 | 946 | 14.9 |
| | OTHER ACCIDENTS | 2 | 2,984 | 17.9 | MALIGNANT NEOPLASMS (CANCER) | 2 | 878 | 13.9 |
| | HOMICIDE | 3 | 2,623 | 15.7 | SUICIDE | 3 | 667 | 10.5 |
| | SUICIDE | 4 | 2,117 | 12.7 | HOMICIDE | 4 | 598 | 9.4 |
| | MALIGNANT NEOPLASMS (CANCER) | 5 | 1,035 | 6.2 | OTHER ACCIDENTS | 5 | 586 | 9.3 |
| 30-34 | MOTOR VEHICLE ACCIDENTS | 1 | 2,247 | 15.9 | MALIGNANT NEOPLASMS (CANCER) | 1 | 1,419 | 20.5 |
| | OTHER ACCIDENTS | 2 | 2,105 | 14.9 | MOTOR VEHICLE ACCIDENTS | 2 | 682 | 9.9 |
| | HOMICIDE | 3 | 1,971 | 14.0 | SUICIDE | 3 | 667 | 9.6 |
| | SUICIDE | 4 | 1,590 | 11.3 | DISEASES OF HEART | 4 | 515 | 7.5 |
| | MALIGNANT NEOPLASMS (CANCER) | 5 | 1,251 | 8.9 | HOMICIDE | 5 | 474 | 6.9 |
| 35-39 | DISEASES OF HEART | 1 | 2,785 | 17.9 | MALIGNANT NEOPLASMS (CANCER) | 1 | 2,353 | 27.1 |
| | OTHER ACCIDENTS | 2 | 1,854 | 11.9 | DISEASES OF HEART | 2 | 984 | 11.3 |
| | MOTOR VEHICLE ACCIDENTS | 3 | 1,768 | 11.4 | SUICIDE | 3 | 628 | 7.2 |
| | MALIGNANT NEOPLASMS (CANCER) | 4 | 1,760 | 11.3 | CEREBROVASCULAR DISEASE (STROKE) | 4 | 511 | 5.9 |
| | HOMICIDE | 5 | 1,529 | 9.8 | MOTOR VEHICLE ACCIDENTS | 5 | 504 | 5.8 |
| 40-44 | DISEASES OF HEART | 1 | 6,507 | 28.5 | MALIGNANT NEOPLASMS (CANCER) | 1 | 4,442 | 32.8 |
| | MALIGNANT NEOPLASMS (CANCER) | 2 | 3,507 | 15.3 | DISEASES OF HEART | 2 | 1,487 | 14.7 |
| | OTHER ACCIDENTS | 3 | 1,852 | 8.1 | CEREBROVASCULAR DISEASE (STROKE) | 3 | 868 | 6.4 |
| | CIRRHOSIS OF LIVER | 4 | 1,588 | 6.9 | CIRRHOSIS OF LIVER | 4 | 830 | 6.1 |
| | MOTOR VEHICLE ACCIDENTS | 5 | 1,489 | 6.5 | SUICIDE | 5 | 721 | 5.3 |
| 45-49 | DISEASES OF HEART | 1 | 13,527 | 35.4 | (MOTOR VEHICLE ACCIDENTS) | (7) | (528) | (3.9) |
| | MALIGNANT NEOPLASMS (CANCER) | 2 | 7,639 | 20.0 | MALIGNANT NEOPLASMS (CANCER) | 1 | 8,457 | 38.1 |
| | CIRRHOSIS OF LIVER | 3 | 2,491 | 6.5 | DISEASES OF HEART | 2 | 3,825 | 17.2 |
| | OTHER ACCIDENTS | 4 | 2,141 | 5.6 | CEREBROVASCULAR DISEASE (STROKE) | 3 | 1,419 | 6.4 |
| | SUICIDE | 5 | 1,569 | 4.1 | CIRRHOSIS OF LIVER | 4 | 1,310 | 5.9 |
| (MOTOR VEHICLE ACCIDENTS) | (6) | (1,454) | (3.8) | SUICIDE | 5 | 776 | 3.5 | |
| 50-54 | DISEASES OF HEART | 1 | 23,982 | 39.9 | (MOTOR VEHICLE ACCIDENTS) | (7) | (547) | (2.5) |
| | MALIGNANT NEOPLASMS (CANCER) | 2 | 13,876 | 23.1 | MALIGNANT NEOPLASMS (CANCER) | 1 | 13,224 | 39.1 |
| | CIRRHOSIS OF LIVER | 3 | 3,139 | 5.2 | DISEASES OF HEART | 2 | 7,390 | 21.8 |
| | CEREBROVASCULAR DISEASE (STROKE) | 4 | 2,453 | 4.1 | CEREBROVASCULAR DISEASE (STROKE) | 3 | 2,355 | 7.0 |
| | OTHER ACCIDENTS | 5 | 2,296 | 3.8 | CIRRHOSIS OF LIVER | 4 | 1,607 | 4.8 |
| (MOTOR VEHICLE ACCIDENTS) | (7) | (1,501) | (2.5) | SUICIDE | 5 | 788 | 2.3 | |
| 55-59 | DISEASES OF HEART | 1 | 34,029 | 41.9 | (MOTOR VEHICLE ACCIDENTS) | (9) | (587) | (1.7) |
| | MALIGNANT NEOPLASMS (CANCER) | 2 | 20,107 | 24.8 | MALIGNANT NEOPLASMS (CANCER) | 1 | 17,049 | 37.7 |
| | CEREBROVASCULAR DISEASE (STROKE) | 3 | 3,920 | 4.8 | DISEASES OF HEART | 2 | 12,009 | 26.5 |
| | CIRRHOSIS OF LIVER | 4 | 3,209 | 4.0 | CEREBROVASCULAR DISEASE (STROKE) | 3 | 3,248 | 7.2 |
| | OTHER ACCIDENTS | 5 | 2,129 | 2.6 | CIRRHOSIS OF LIVER | 4 | 1,677 | 3.7 |
| (MOTOR VEHICLE ACCIDENTS) | (10) | (1,313) | (1.6) | DIABETES MELLITUS | 5 | 1,184 | 2.6 | |
| 60-64 | DISEASES OF HEART | 1 | 46,335 | 42.5 | (MOTOR VEHICLE ACCIDENTS) | (12) | (550) | (1.2) |
| | MALIGNANT NEOPLASMS (CANCER) | 2 | 27,759 | 25.5 | MALIGNANT NEOPLASMS (CANCER) | 1 | 20,260 | 33.6 |
| | CEREBROVASCULAR DISEASE (STROKE) | 3 | 6,167 | 5.7 | DISEASES OF HEART | 2 | 19,287 | 32.0 |
| | CIRRHOSIS OF LIVER | 4 | 3,227 | 3.0 | CEREBROVASCULAR DISEASE (STROKE) | 3 | 4,793 | 7.9 |
| | OTHER RESPIRATORY DISEASES | 5 | 2,307 | 2.1 | DIABETES MELLITUS | 4 | 1,821 | 3.0 |
| (MOTOR VEHICLE ACCIDENTS) | (13) | (1,144) | (1.0) | CIRRHOSIS OF LIVER | 5 | 1,575 | 2.6 | |
| | | | | (MOTOR VEHICLE ACCIDENTS) | (12) | (567) | (.9) | |

| | | | | | | | | |
|-------|-------------------------------------|-------------|----------------|-------------|---|-------------|--------------|-------------|
| 65-69 | DISEASES OF HEART | 1 | 55,765 | 42.8 | DISEASES OF HEART | 1 | 29,220 | 37.4 |
| | MALIGNANT NEOPLASMS (CANCER) | 2 | 32,349 | 24.8 | MALIGNANT NEOPLASMS (CANCER) | 2 | 21,930 | 28.1 |
| | CEREBROVASCULAR DISEASE (STROKE) | 3 | 9,359 | 7.2 | CEREBROVASCULAR DISEASE (STROKE) | 3 | 7,768 | 9.9 |
| | OTHER RESPIRATORY DISEASES | 4 | 3,246 | 2.5 | DIABETES MELLITUS | 4 | 2,638 | 3.4 |
| | EMPHYSEMA | 5 | 2,721 | 2.1 | OTHER DISEASES OF CIRCULATORY SYSTEM | 5 | 1,576 | 2.0 |
| | (MOTOR VEHICLE ACCIDENTS) | (14) | (1,084) | (.8) | (MOTOR VEHICLE ACCIDENTS) | (12) | (564) | (.7) |
| 70-74 | DISEASES OF HEART | 1 | 58,009 | 42.7 | DISEASES OF HEART | 1 | 40,673 | 41.4 |
| | MALIGNANT NEOPLASMS (CANCER) | 2 | 31,075 | 22.9 | MALIGNANT NEOPLASMS (CANCER) | 2 | 22,250 | 22.7 |
| | CEREBROVASCULAR DISEASE (STROKE) | 3 | 12,537 | 9.2 | CEREBROVASCULAR DISEASE (STROKE) | 3 | 12,392 | 12.6 |
| | OTHER RESPIRATORY DISEASES | 4 | 3,605 | 2.7 | DIABETES MELLITUS | 4 | 3,436 | 3.5 |
| | PNEUMONIA | 5 | 3,221 | 2.4 | OTHER DISEASES OF CIRCULATORY SYSTEM | 5 | 1,952 | 2.0 |
| | (MOTOR VEHICLE ACCIDENTS) | (14) | (852) | (.6) | (MOTOR VEHICLE ACCIDENTS) | (14) | (547) | (.6) |

The Motor Vehicle Travel data, the Vehicle Registration data and the Driver License data for 1976, and 1977 preliminary estimates were provided by the Highway Statistics Division, Federal Highway Administration, U.S. Department of Transportation, Nassif Building, 400 7th Street, SW., Washington, D.C. 20590, (202) 426-0180.

For more information about this and other Highway Safety Facts, write the National Center for Statistics and Analysis, NRD-34, National Highway Traffic Safety Administration, 2100 Second Street, SW., Washington, D.C. 20590.

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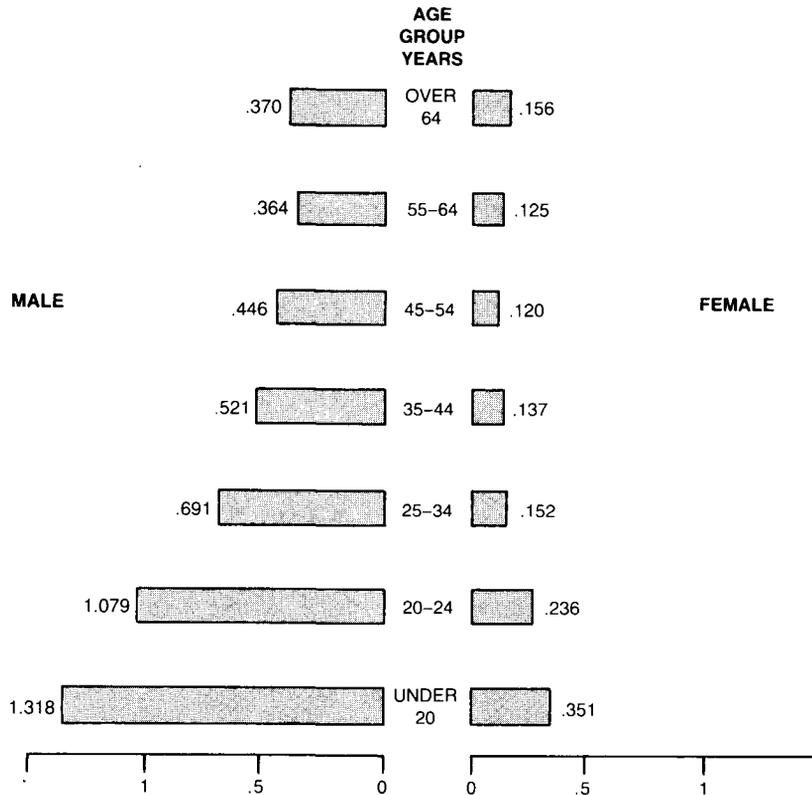
§U.S. Bureau of Census, *Current Population Reports*, (1970 to 1977) Series P-25, No. 721.



FATALITIES—THE MOTOR VEHICLE OCCUPANTS INVOLVED

Of the nearly 60,000 drivers involved in fatal traffic accidents in 1977, 82 percent were male. (See Table 4.) As shown in Figure 1, younger drivers and particularly males, had higher fatal accident involvement rates. Males in all age categories had higher fatal accident involvement rates than females in the same age categories.

FIGURE 1
FATAL TRAFFIC ACCIDENT INVOLVEMENT RATE PER 1000 LICENSED DRIVERS BY SEX AND AGE GROUP, 1977



The over-involvement of young drivers (under 25), particularly in single vehicle fatal accidents, is shown in Table 1. Drivers over 34 were generally in fewer fatal accidents than would be expected, based on the number of licenses in force. It should be noted that this measure of exposure, driver licenses in force, does not take into account differences in average miles traveled per year by different age groups.

TABLE 1
PERCENT DISTRIBUTION, BY AGE, OF DRIVERS INVOLVED IN FATAL TRAFFIC ACCIDENTS, 1977,
BY COLLISION TYPE

| | TOTAL | AGE OF DRIVER | | | | | | UNKNOWN |
|---------------------------------|--------|---------------|-------|-------|-------|-------|---------|---------|
| | | UNDER 25 | 25-34 | 35-44 | 45-54 | 55-64 | OVER 64 | |
| DRIVER LICENSES IN FORCE | 100.00 | 22.50 | 24.00 | 16.40 | 14.90 | 12.30 | 9.90 | -- |
| TYPE OF ACCIDENT | | | | | | | | |
| ALL FATAL ACCIDENTS | 100.00 | 39.32 | 23.98 | 12.76 | 10.04 | 7.21 | 6.46 | .23 |
| SINGLE VEHICLE | 100.00 | 44.92 | 24.11 | 11.52 | 8.72 | 6.02 | 4.42 | .28 |
| MULTI-VEHICLE: | | | | | | | | |
| REAR END | 100.00 | 30.73 | 25.85 | 16.15 | 12.90 | 8.48 | 5.57 | .31 |
| HEAD ON | 100.00 | 36.14 | 25.02 | 14.04 | 10.85 | 7.87 | 5.96 | .11 |
| REAR TO REAR | 100.00 | 25.00 | 28.85 | 11.54 | 15.38 | 5.77 | 11.54 | 1.92 |
| ANGLE | 100.00 | 35.36 | 22.05 | 12.83 | 10.62 | 8.30 | 10.67 | .17 |
| SIDESWIPE | 100.00 | 36.54 | 26.26 | 12.94 | 10.95 | 7.54 | 5.50 | .28 |

There are more drivers between the ages of 25 and 34, and they showed a mixed pattern of fatal accident involvement. Female drivers in this age group were especially involved in accidents with pedalcyclists. Both males and females in this age group had a high involvement in fatal pedestrian accidents. Drivers from 20 to 34 showed a high involvement in fatal single vehicle motorcycle accidents. (See Tables 2 and 3.)

TABLE 2
PERCENT DISTRIBUTION, BY AGE, OF MALE DRIVERS INVOLVED IN FATAL TRAFFIC ACCIDENTS,
1977, BY ACCIDENT TYPE

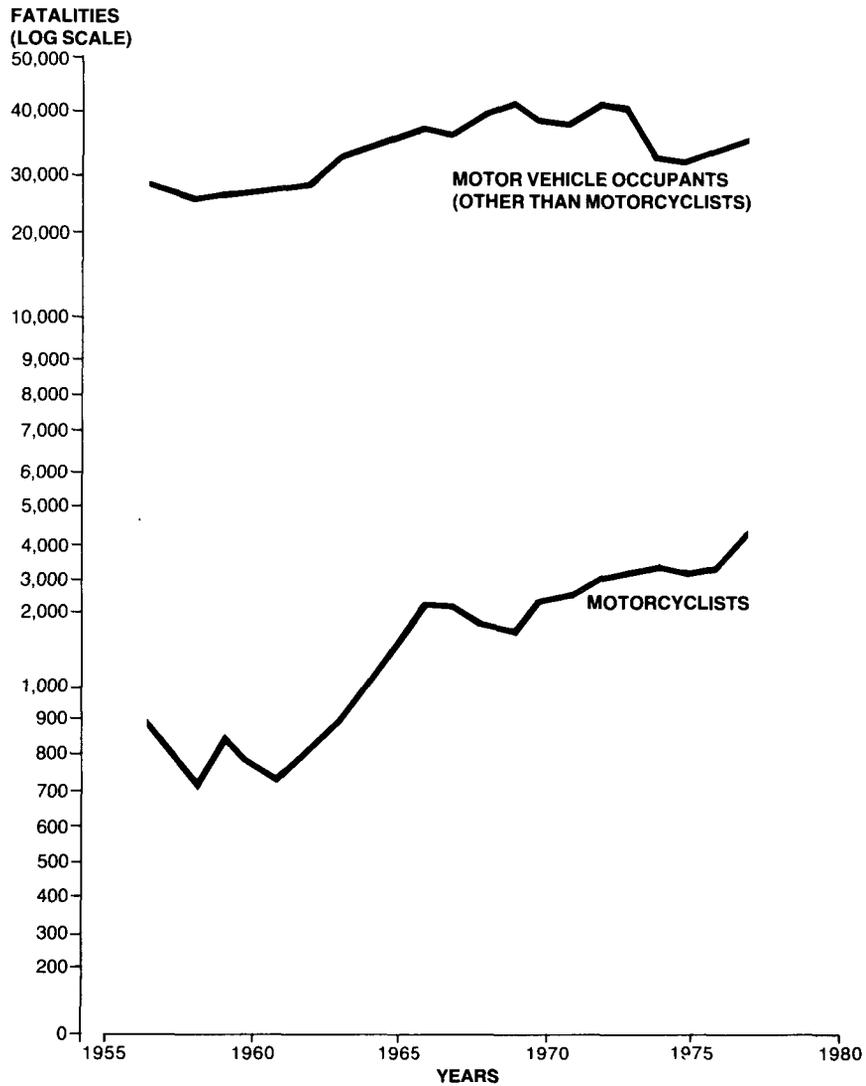
| | TOTAL | AGE OF DRIVER | | | | | | | UNKNOWN |
|---------------------------------|--------|---------------|-------|-------|-------|-------|-------|---------|---------|
| | | UNDER 20 | 20-24 | 25-34 | 35-44 | 45-54 | 55-64 | OVER 64 | |
| DRIVER LICENSES IN FORCE | 100.00 | 9.05 | 13.39 | 23.35 | 16.00 | 14.75 | 12.49 | 10.97 | -- |
| TYPE OF ACCIDENT | | | | | | | | | |
| ALL FATAL ACCIDENTS | 100.00 | 18.03 | 21.83 | 24.39 | 12.60 | 9.94 | 6.86 | 6.13 | .21 |
| COLLISION WITH: | | | | | | | | | |
| PEDESTRIAN | 100.00 | 16.69 | 20.74 | 26.11 | 13.85 | 10.31 | 7.32 | 4.81 | .18 |
| PEDALCYCLE | 100.00 | 20.42 | 20.56 | 24.37 | 13.38 | 9.72 | 7.61 | 3.80 | .14 |
| SINGLE-VEHICLE: | | | | | | | | | |
| MOTORCYCLE | 100.00 | 21.70 | 36.42 | 30.06 | 6.92 | 2.96 | 1.13 | .63 | .19 |
| OTHER VEHICLES | 100.00 | 22.96 | 24.68 | 22.71 | 10.66 | 8.41 | 5.85 | 4.42 | .32 |
| MULTI-VEHICLE | 100.00 | 15.69 | 19.90 | 24.53 | 13.58 | 11.00 | 7.56 | 7.57 | .17 |

TABLE 3
PERCENT DISTRIBUTION, BY AGE, OF FEMALE DRIVERS INVOLVED IN FATAL TRAFFIC ACCIDENTS,
1977, BY ACCIDENT TYPE

| | TOTAL | AGE OF DRIVER | | | | | | | UNKNOWN |
|---------------------------------|--------|---------------|-------|-------|-------|-------|-------|---------|---------|
| | | UNDER 20 | 20-24 | 25-34 | 35-44 | 45-54 | 55-64 | OVER 64 | |
| DRIVER LICENSES IN FORCE | 100.00 | 8.73 | 13.84 | 24.76 | 16.86 | 15.07 | 12.08 | 8.66 | -- |
| TYPE OF ACCIDENT | | | | | | | | | |
| ALL FATAL ACCIDENTS | 100.00 | 17.91 | 19.10 | 22.09 | 13.49 | 10.56 | 8.81 | 7.91 | .13 |
| COLLISION WITH: | | | | | | | | | |
| PEDESTIRAN | 100.00 | 17.55 | 22.48 | 25.33 | 13.39 | 9.55 | 6.31 | 5.23 | .15 |
| PEDALCYCLE | 100.00 | 16.94 | 16.39 | 27.32 | 14.75 | 10.38 | 8.74 | 5.46 | -- |
| SINGLE-VEHICLE | | | | | | | | | |
| MOTORCYCLE | 100.00 | 16.00 | 28.00 | 28.00 | 12.00 | 16.00 | -- | -- | -- |
| OTHER VEHICLES | 100.00 | 23.36 | 21.63 | 22.17 | 11.03 | 9.25 | 6.55 | 5.78 | .23 |
| MULTI-VEHICLE | 100.00 | 15.92 | 17.53 | 21.29 | 14.42 | 11.25 | 10.19 | 9.33 | .09 |

Figure 2 presents the motor vehicle occupant fatalities from 1957 to 1977. Motorcycle fatalities have been increasing at a faster rate than other motor vehicle occupant fatalities. From 1976 to 1977, the number of vehicle occupant fatalities increased for motorcycle occupants 23 percent and for other motor vehicle occupants 3 percent. These relative increases may reflect increased driving as well as other changes.

FIGURE 2
MOTOR VEHICLE OCCUPANT AND MOTORCYCLE TRAFFIC FATALITIES, 1957-1977



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III(2)4

The supporting data for Figures 1 and 2 are presented in Tables 4 and 5.

**TABLE 4
DISTRIBUTION OF DRIVERS INVOLVED IN FATAL TRAFFIC ACCIDENTS BY AGE AND SEX 1977**

| AGE GROUP YEARS | TOTAL | | | MALE | | | FEMALE | | |
|--------------------|--|--|--|--|--|--|--|--|--|
| | DRIVERS LICENSES IN FORCE (THOUSANDS) | FATAL ACCIDENT INVOLVED DRIVERS | FATAL ACCIDENT INVOLVEMENT RATE (PER 1000 DRIVERS) | DRIVERS LICENSES IN FORCE (THOUSANDS) | FATAL ACCIDENT INVOLVED DRIVERS | FATAL ACCIDENT INVOLVEMENT RATE (PER 1000 DRIVERS) | DRIVERS LICENSES IN FORCE (THOUSANDS) | FATAL ACCIDENT INVOLVED DRIVERS | FATAL ACCIDENT INVOLVEMENT RATE (PER 1000 DRIVERS) |
| UNDER 20 | 12,274 | 10,801 | .880 | 6,715 | 8,852 | 1.318 | 5,559 | 1,949 | .351 |
| 20-24 | 18,753 | 12,797 | .682 | 9,935 | 10,718 | 1.079 | 8,818 | 2,079 | .236 |
| 25-34 | 33,096 | 14,377 | .434 | 17,321 | 11,972 | .691 | 15,775 | 2,405 | .152 |
| 35-44 | 22,615 | 7,654 | .338 | 11,874 | 6,186 | .521 | 10,741 | 1,468 | .137 |
| 45-54 | 20,548 | 6,032 | .294 | 10,946 | 4,882 | .446 | 9,602 | 1,150 | .120 |
| 55-64 | 17,962 | 4,328 | .241 | 9,264 | 3,369 | .364 | 7,698 | 959 | .125 |
| OVER 64 | 14,653 | 3,872 | .264 | 8,140 | 3,011 | .370 | 5,513 | 861 | .156 |
| UN- KNOWN | -- | 119 | -- | -- | 105 | -- | -- | 14 | -- |
| TOTAL | 137,901 | 59,980 | .435 | 74,195 | 49,095 | .662 | 63,706 | 10,885 | .171 |

**TABLE 5
MOTOR VEHICLE OCCUPANT AND MOTORCYCLE
TRAFFIC FATALITIES, 1957-1977**

| YEAR | MOTOR VEHICLE | |
|------|------------------|---------------|
| | OCCUPANTS | MOTORCYCLISTS |
| 1957 | 27,807 | 850 |
| 1958 | 26,591 | 720 |
| 1959 | 27,093 | 850 |
| 1960 | 27,354 | 790 |
| 1961 | 27,458 | 740 |
| 1962 | 29,697 | 810 |
| 1963 | 32,121 | 940 |
| 1964 | 34,906 | 1,240 |
| 1965 | 36,027 | 1,650 |
| 1966 | 38,620 | 2,230 |
| 1967 | 38,561 | 2,170 |
| 1968 | 40,463 | 1,940 |
| 1969 | 41,412 | 1,870 |
| 1970 | 39,828 | 2,280 |
| 1971 | 39,137 | 2,650 |
| 1972 | 40,546 | 3,030 |
| 1973 | 40,010 | 3,230 |
| 1974 | 32,584 | 3,370 |
| 1975 | 32,151 | 3,189 |
| 1976 | 33,194 | 3,312 |
| 1977 | 34,342 | 4,083 |

The 1977 driver license in force data are preliminary estimates provided by the Highway Statistics Division, Federal Highway Administration, U.S. Department of Transportation, Nassif Building, 400 7th Street, SW., Washington, D.C. 20590, (202) 426-0180.

The 1957 to 1974 traffic fatality data were estimated by the National Highway Traffic Safety Administration (NHTSA) from data supplied by the National Center for Health Statistics, HEW, and State Accident Summaries (adjusted to 30 day deaths). The traffic fatality data for 1975 to 1977 are taken from the 1977 Fatal Accident Reporting System (FARS). The FARS file is maintained by NHTSA's National Center for Statistics and Analysis (NCSA).

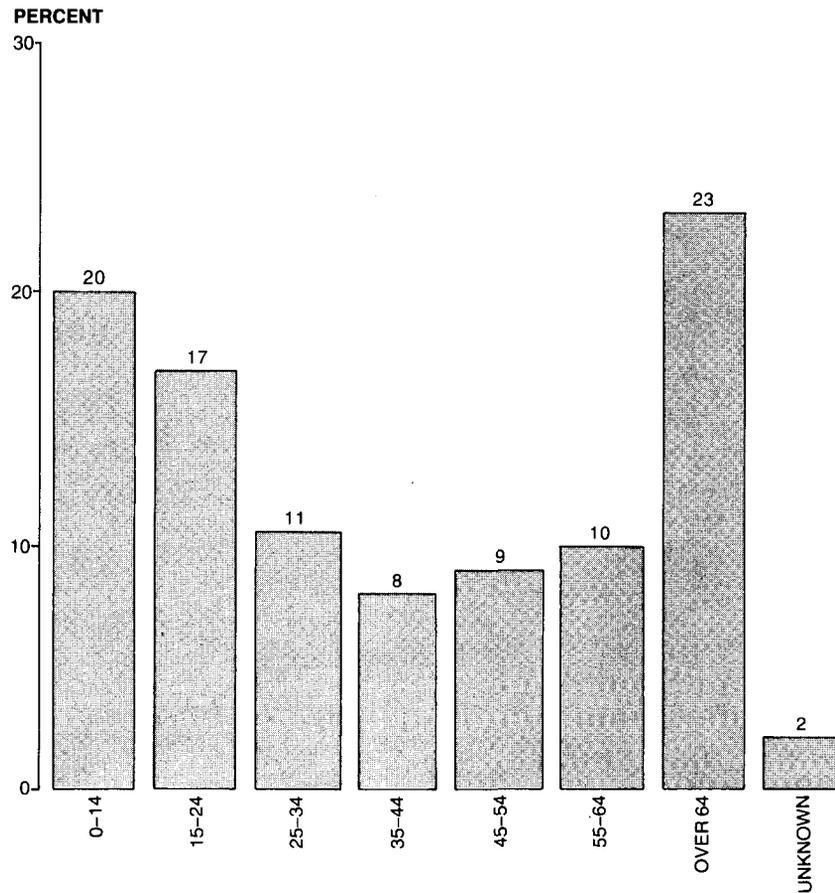
For more information about this and other Highway Safety Facts, write the National Center for Statistics and Analysis, NRD-34, National Highway Traffic Safety Administration, 2100 Second Street, SW., Washington, D.C. 20590.



FATALITIES—THE PEDESTRIAN AND BICYCLIST INVOLVED

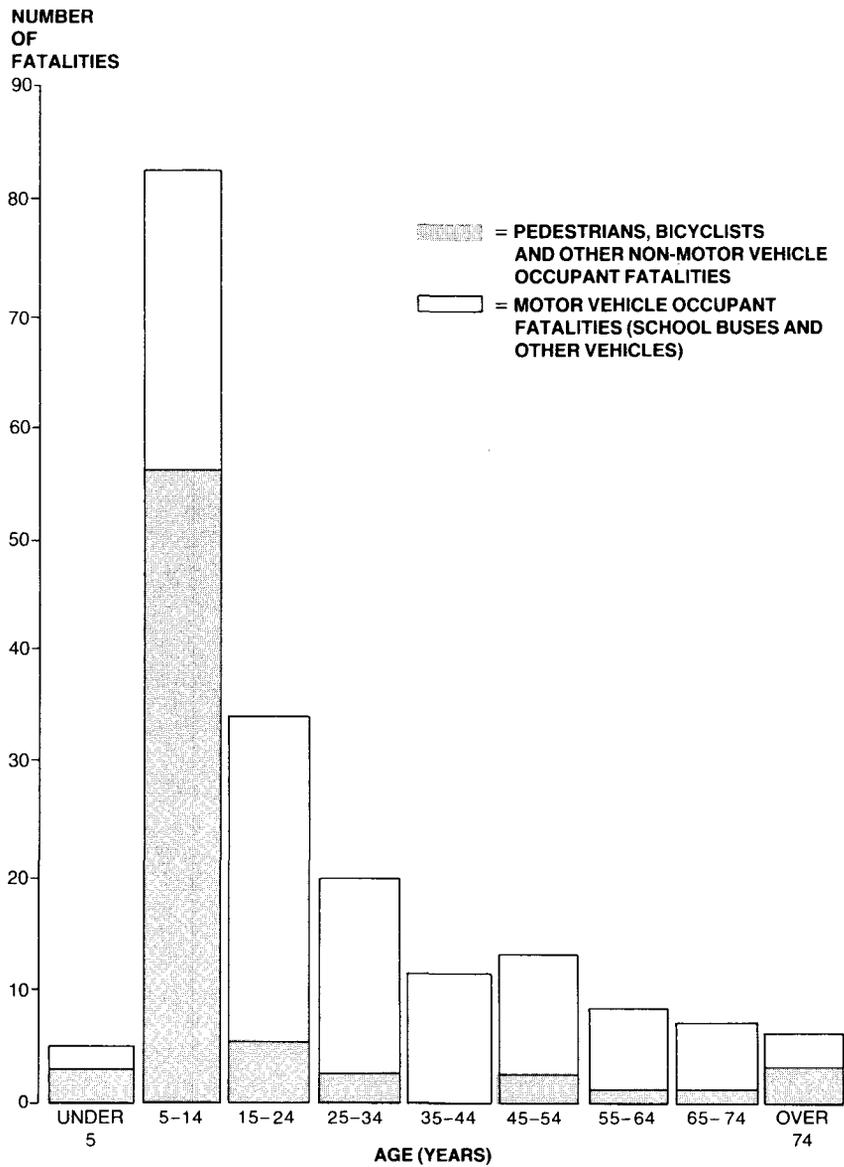
In 1977, 7,705 pedestrians were killed in traffic accidents, representing 16 percent of all traffic fatalities. Over 40 percent of the fatal accidents involving pedestrians occurred during the nighttime hours (3,125 between 8 p.m. and 4 a.m.) and most of the fatalities occurred on the roadway away from intersections (5,392). As shown in Figure 1, the young, and especially the old, are the primary victims of pedestrian accidents.

FIGURE 1
AGE DISTRIBUTION OF PEDESTRIAN FATALITIES, 1977



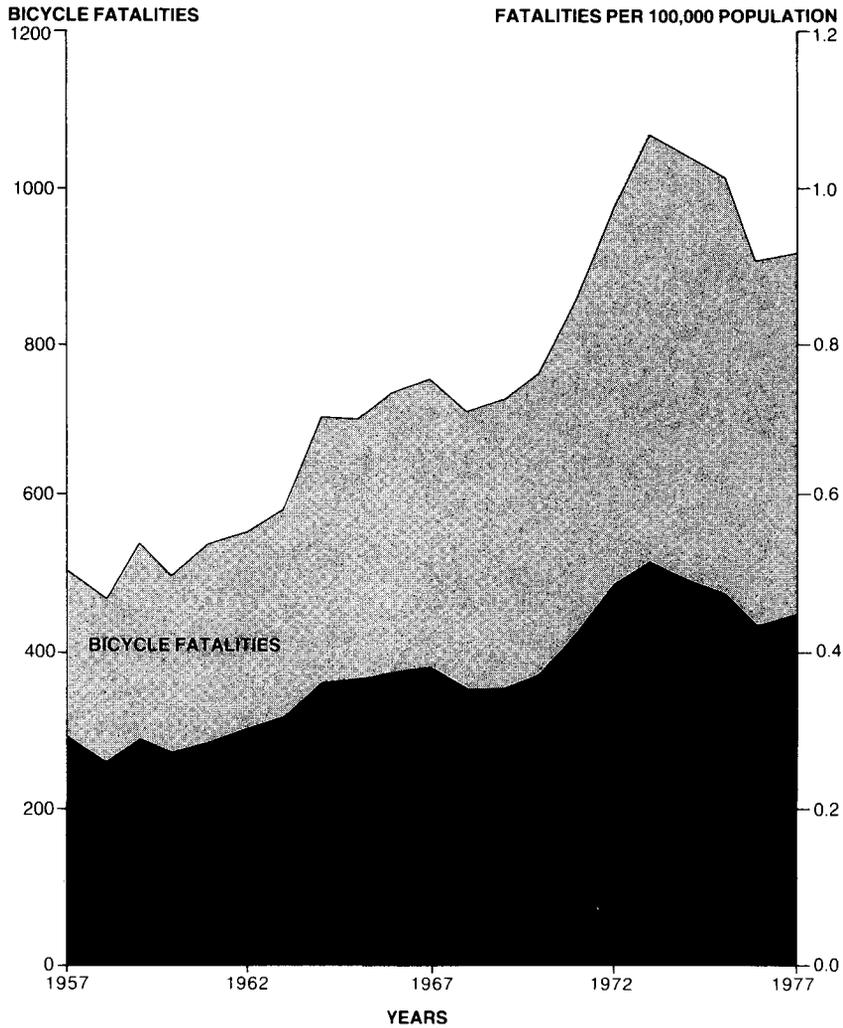
Pedestrians, bicyclists and other individuals not riding in motor vehicles constitute a relatively high proportion (37 percent) of the deaths in school bus-related accidents. Fatalities in these accidents in 1977 are presented in Figure 2. It is clearly seen that the fatalities tended to be very young.

FIGURE 2
FATALITIES IN SCHOOL BUS-RELATED ACCIDENTS, 1977



As shown in Figure 3, increasing use of bicycles has led to greater numbers of bicycle fatalities (916 in 1977). Over one-third (330) of these fatal traffic accidents involving bicycles occurred on local streets. Over half (583) were between noon and 8 p.m. Most of the 1977 bicycle fatalities were young—77 percent (709) were under 21 and 66 percent (607) were under 16. Almost 80 percent (724) were male.

FIGURE 3
BICYCLE FATALITIES INVOLVING MOTOR VEHICLES, 1950-1977



The following displays present a comparison of trends between motorcycle and bicycle fatalities, and pedestrian and motor vehicle occupant fatalities. Over the last 3 years, neither bicycle nor pedestrian fatalities have increased at the rate of other motor vehicle fatalities.

FIGURE 4
MOTORCYCLE AND BICYCLE FATALITIES, 1957-1977

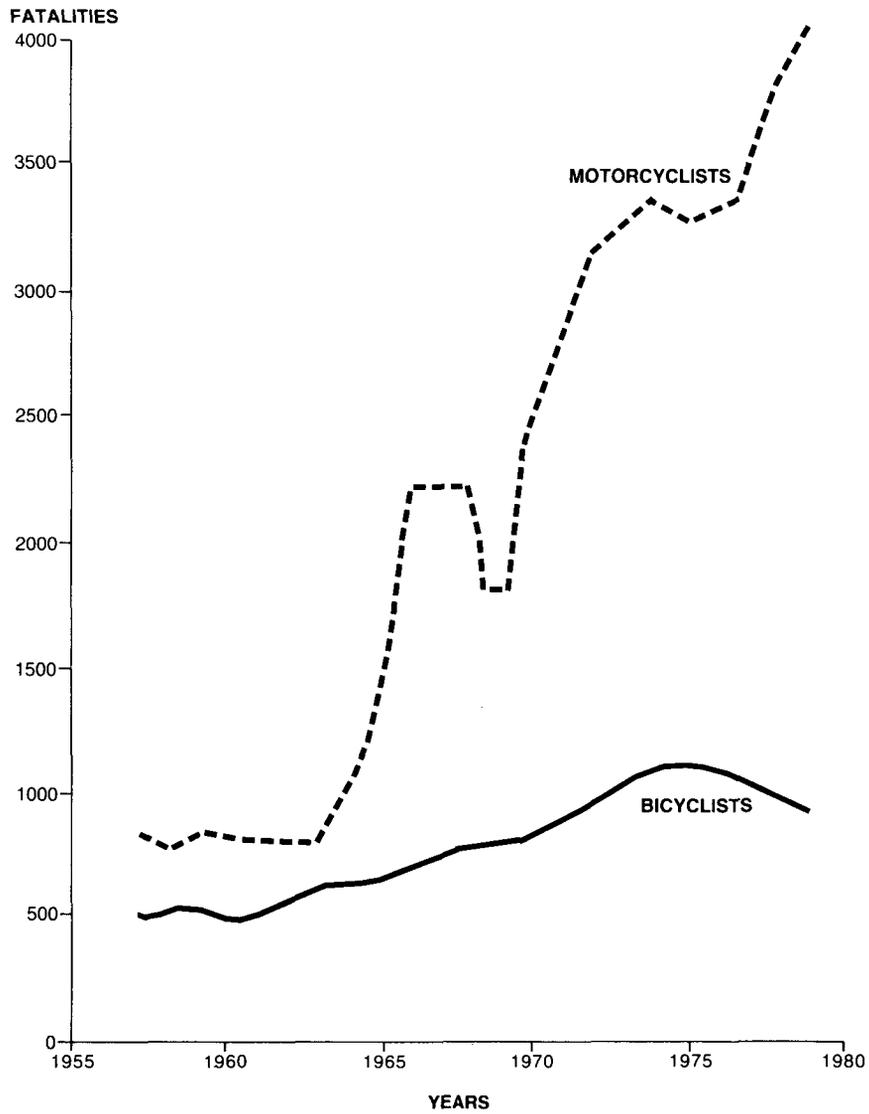
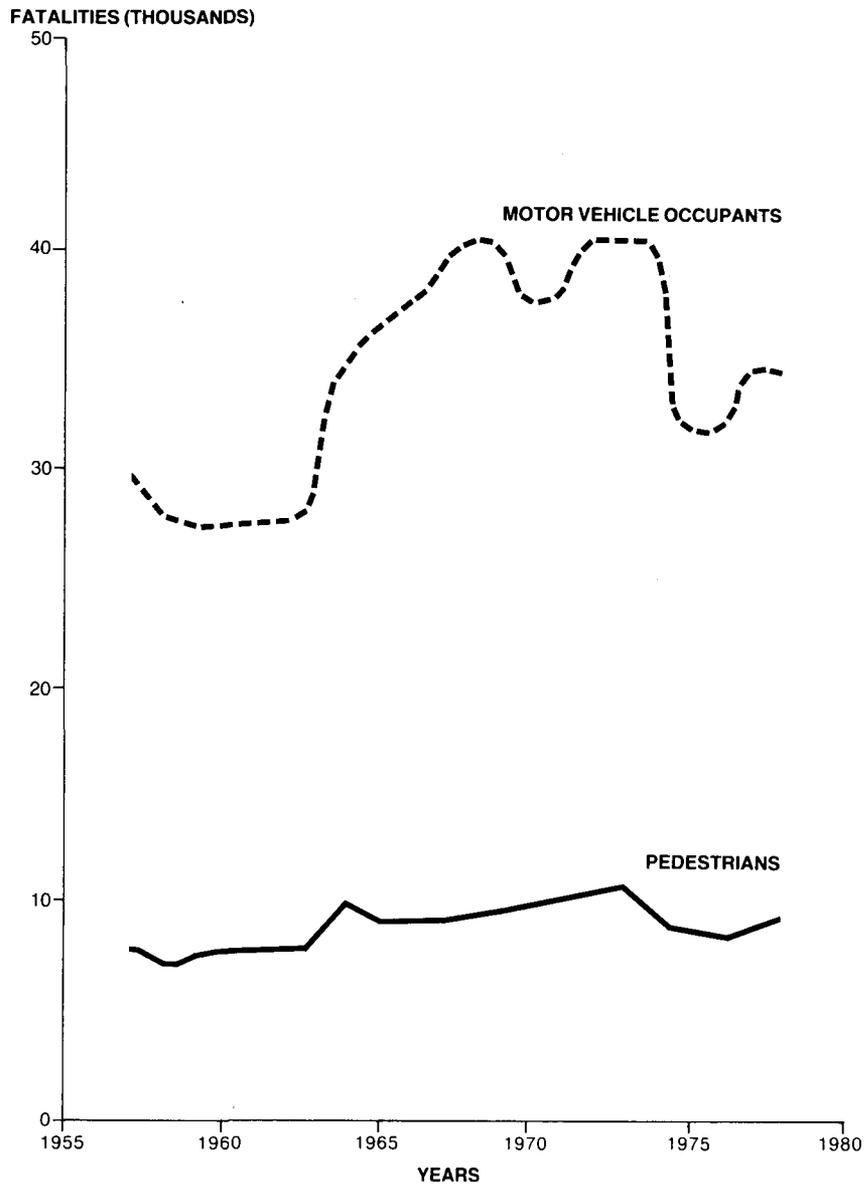


FIGURE 5
PEDESTRIAN AND MOTOR VEHICLE OCCUPANT FATALITIES, 1957-1977



Supporting data for Figures 1 through 5 and the above discussion follow.

**TABLE 1
AGE DISTRIBUTION OF PEDESTRIAN
FATALITIES, 1977**

| AGE | NUMBER OF FATALITIES |
|--------------|-----------------------------|
| 0-14 | 1543 |
| 15-24 | 1313 |
| 25-34 | 845 |
| 35-44 | 587 |
| 45-54 | 709 |
| 55-64 | 803 |
| OVER 64 | 1772 |
| NOT STATED | 133 |
| TOTAL | 7705 |

**TABLE 2
SCHOOL BUS FATALITIES, 1977**

| OCCUPANCY | AGE | | | | | | | | | |
|------------------------------|--------------|----------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|
| | TOTAL | UNDER 5 | 5-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | OVER 74 |
| NON-OCCUPANT | | | | | | | | | | |
| PEDESTRIAN | 64 | 2 | 51 | 2 | 2 | 0 | 2 | 1 | 1 | 3 |
| PEDALCYCLIST | 7 | 0 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| RIDER OF ANIMAL | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| OCCUPANT BY BODY TYPE | | | | | | | | | | |
| CONVERTIBLE | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2-DOOR SEDAN, HARDTOP, COUPE | 41 | 1 | 1 | 16 | 10 | 5 | 1 | 5 | 2 | 0 |
| 4-DOOR SEDAN, HARDTOP, COUPE | 15 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 |
| STATIONWAGON | 5 | 0 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| UNKNOWN TYPE AUTOMOBILE | 6 | 0 | 0 | 5 | 0 | 0 | 0 | 1 | 0 | 0 |
| MOTORCYCLE | 7 | 0 | 2 | 2 | 1 | 1 | 1 | 0 | 0 | 0 |
| SCHOOL BUS | 13 | 0 | 12 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| TRANSIT BUS | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CONSTRUCTION EQUIPMENT | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| CAMPER/MOTOR HOME | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| PICKUP | 12 | 0 | 2 | 2 | 2 | 2 | 3 | 0 | 0 | 1 |
| VAN | 4 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 |
| SINGLE UNIT TRUCK | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| TWO UNIT TRUCK | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| MULTI UNIT TRUCK | 4 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 |
| UNKNOWN TYPE | 5 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 192 | 5 | 83 | 39 | 20 | 11 | 13 | 8 | 7 | 6 |

TABLE 3
BICYCLE DEATHS INVOLVING MOTOR VEHICLES,
1957-1977

| YEAR | BICYCLE DEATHS | BICYCLE POPULATION DEATH RATE |
|-------------|-----------------------|--------------------------------------|
| 1957 | 500 | .29 |
| 1958 | 460 | .26 |
| 1959 | 520 | .29 |
| 1960 | 490 | .27 |
| 1961 | 520 | .28 |
| 1962 | 550 | .30 |
| 1963 | 580 | .31 |
| 1964 | 690 | .36 |
| 1965 | 690 | .36 |
| 1966 | 730 | .37 |
| 1967 | 750 | .38 |
| 1968 | 700 | .35 |
| 1969 | 710 | .35 |
| 1970 | 760 | .37 |
| 1971 | 860 | .42 |
| 1972 | 990 | .48 |
| 1973 | 1,070 | .51 |
| 1974 | 1,040 | .49 |
| 1975 | 1,003 | .47 |
| 1976 | 914 | .43 |
| 1977 | 916 | .43 |

TABLE 4
MOTOR VEHICLE FATALITIES, 1957-1977

| YEAR | PEDESTRIANS | MOTORCYCLISTS | BICYCLISTS | MOTOR VEHICLE OCCUPANTS | OTHER | TOTAL |
|-------------|--------------------|----------------------|-------------------|--------------------------------|--------------|--------------|
| 1957 | 7,210 | 850 | 500 | 27,807 | 565 | 36,932 |
| 1958 | 7,020 | 720 | 460 | 26,591 | 540 | 35,331 |
| 1959 | 7,210 | 850 | 520 | 27,093 | 550 | 36,223 |
| 1960 | 7,210 | 790 | 490 | 27,354 | 555 | 36,399 |
| 1961 | 7,010 | 740 | 520 | 27,458 | 557 | 36,285 |
| 1962 | 7,320 | 810 | 550 | 29,697 | 603 | 38,980 |
| 1963 | 7,430 | 940 | 580 | 32,121 | 652 | 41,723 |
| 1964 | 8,100 | 1,240 | 690 | 34,906 | 709 | 45,645 |
| 1965 | 7,990 | 1,650 | 690 | 36,027 | 732 | 47,089 |
| 1966 | 8,530 | 2,230 | 730 | 38,620 | 784 | 50,894 |
| 1967 | 8,460 | 2,170 | 750 | 38,561 | 783 | 50,724 |
| 1968 | 8,800 | 1,940 | 700 | 40,463 | 822 | 52,725 |
| 1969 | 8,710 | 1,870 | 710 | 41,412 | 841 | 53,543 |
| 1970 | 8,950 | 2,280 | 760 | 39,828 | 809 | 52,627 |
| 1971 | 9,100 | 2,650 | 860 | 39,137 | 795 | 52,542 |
| 1972 | 9,200 | 3,030 | 990 | 40,546 | 823 | 54,589 |
| 1973 | 8,930 | 3,230 | 1,070 | 40,010 | 812 | 54,052 |
| 1974 | 7,540 | 3,370 | 1,040 | 32,584 | 662 | 45,196 |
| 1975 | 7,516 | 3,189 | 1,003 | 32,151 | 666 | 44,525 |
| 1976 | 7,427 | 3,312 | 914 | 33,194 | 676 | 45,523 |
| 1977 | 7,705 | 4,083 | 916 | 34,342 | 669 | 47,715 |

The 1957 through 1974 traffic fatality data were estimated by the National Highway Traffic Safety Administration (NHTSA) from data supplied by the National Center for Health Statistics, HEW, and State Accident Summaries (adjusted to 30 day deaths). The traffic fatality data for 1975 to 1977 are taken from the 1977 Fatal Accident Reporting System (FARS). The FARS file is maintained by NHTSA's National Center for Statistics and Analysis (NCSA).

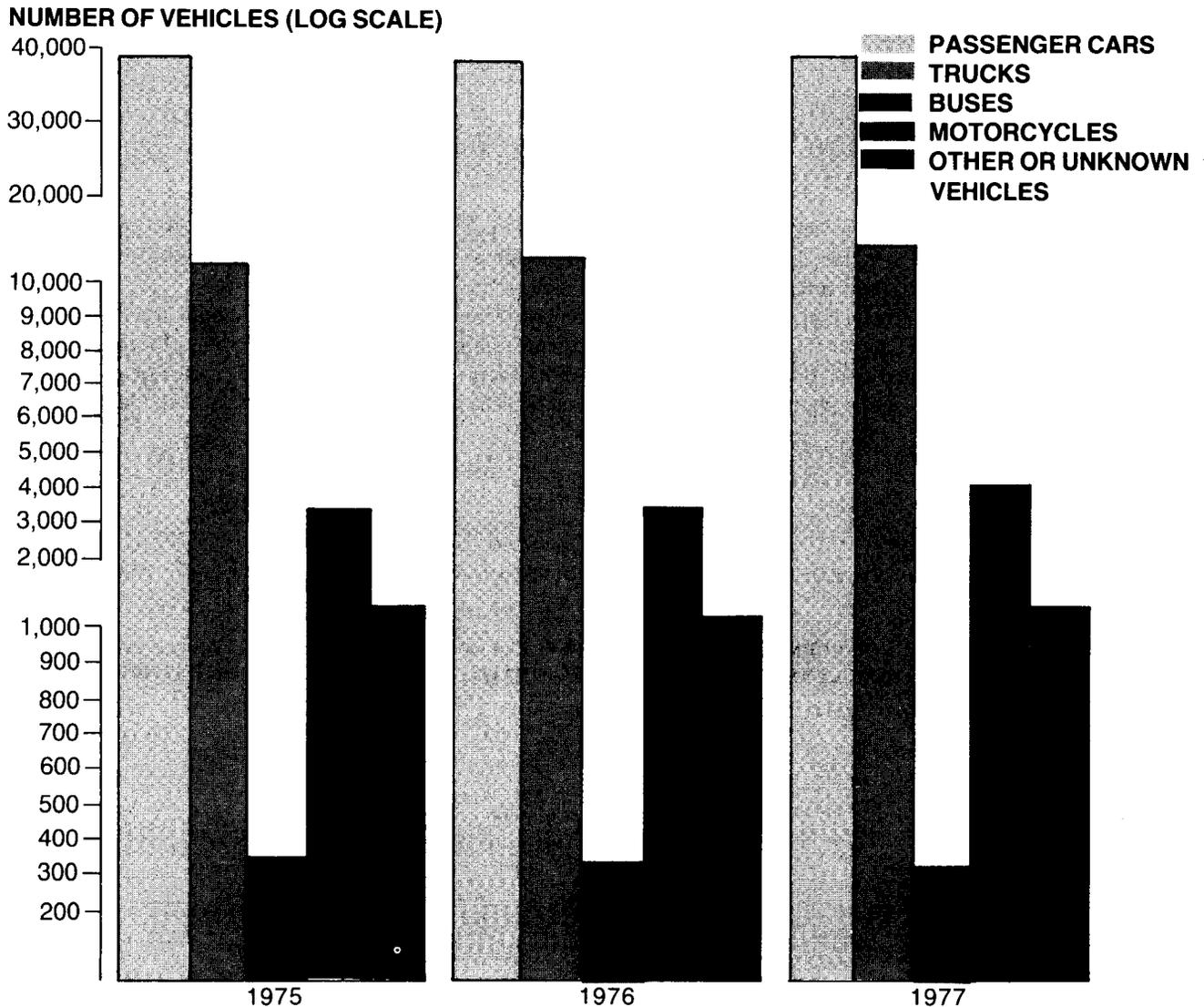
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FATALITIES—THE MOTOR VEHICLES INVOLVED

The distribution of vehicle types involved in fatal traffic accidents for the years 1975 through 1977, is presented in Figure 1. The largest percentage increase in fatal accident involvement from 1976 to 1977, was for medium and heavy trucks (63.8 percent and 11.7 percent, respectively) and for motorcycles (23.6 percent). (See Table 1.)

FIGURE 1
DISTRIBUTION OF VEHICLES INVOLVED IN FATAL TRAFFIC ACCIDENTS, 1975-1977



In those accidents involving heavy trucks, the fatalities are usually not truck occupants. This indicates that the size and weight of trucks make them especially dangerous to other vehicle occupants when involved in collisions with other vehicles. In contrast, when a motorcycle is involved in a fatal accident, at least one fatality is usually a motorcycle occupant. Motorcycle occupants suffer in any such collision from a lack of crash protection.

TABLE 1
DISTRIBUTION OF VEHICLES INVOLVED IN FATAL ACCIDENTS, 1975-1977

| TYPE OF VEHICLE | NUMBER OF VEHICLES INVOLVED | | | NUMBER OF FATAL ACCIDENTS | | | FATAL ACCIDENT INVOLVEMENT | |
|---------------------------|-----------------------------|--------|--------|---------------------------|--------|--------|----------------------------|-------------------|
| | 1975 | 1976 | 1977 | 1975 | 1976 | 1977 | %CHANGE 1975-1976 | %CHANGE 1976-1977 |
| PASSENGER CARS | 38,330 | 37,795 | 39,781 | 30,122 | 29,967 | 31,285 | - .5 | 4.4 |
| LIGHT TRUCKS | 7,692 | 8,370 | 9,125 | 7,335 | 7,966 | 8,658 | 8.6 | 8.7 |
| MEDIUM TRUCKS | 475 | 424 | 705 | 463 | 423 | 693 | -8.6 | 63.8 |
| HEAVY TRUCKS | 3,042 | 3,566 | 3,998 | 2,858 | 3,380 | 3,774 | 18.3 | 11.7 |
| OTHER OR UNKNOWN TRUCKS | 972 | 849 | 782 | 944 | 832 | 772 | -11.9 | -7.2 |
| SCHOOL BUSES | 130 | 123 | 123 | 130 | 122 | 123 | -6.2 | .8 |
| COMMERCIAL BUSES | 160 | 160 | 156 | 157 | 160 | 156 | 1.9 | -2.5 |
| OTHER OR UNKNOWN BUSES | 37 | 36 | 39 | 37 | 36 | 39 | -2.7 | 8.3 |
| MOTORCYCLES | 3,265 | 3,343 | 4,143 | 3,148 | 3,245 | 4,011 | 3.1 | 23.6 |
| OTHER OR UNKNOWN VEHICLES | 1,432 | 1,418 | 1,450 | 1,366 | 1,337 | 1,372 | -2.1 | 2.6 |
| TOTAL | 55,535 | 56,084 | 60,302 | 46,560 | 47,468 | 50,883 | 2.0 | 7.2 |

The three categories of trucks presented in Table 1 are light trucks (pick-up trucks and vans) with a gross vehicle weight (GVW) less than 10,000 lbs.; medium trucks with a GVW from 10,000 lbs. to 26,000 lbs.; and heavy trucks (single-unit and articulated trucks) with a GVW greater than 26,000 lbs.

The motor vehicle involvement in fatal accidents is compared to registrations and vehicle miles traveled in Table 2, for years 1975 and 1976. As shown, motorcycles are overrepresented in fatal accidents. While motorcycles represented only 3.5 percent of all motor vehicles registered in 1976, and 1.6 percent of all motor vehicle miles traveled, they accounted for 6 percent of all motor vehicles involved in fatal accidents.

TABLE 2
TYPE OF MOTOR VEHICLES INVOLVED IN FATAL ACCIDENTS

| TYPE OF VEHICLE | PERCENT OF ALL VEHICLES REGISTERED | | PERCENT OF ALL VEHICLES IN FATAL ACCIDENTS | | PERCENT OF ALL MOTOR VEHICLE MILES TRAVELED | |
|--------------------------|------------------------------------|------|--|------|---|------|
| | 1975 | 1976 | 1975 | 1976 | 1975 | 1976 |
| PASSENGER CARS | 77.4 | 76.9 | 69.0 | 67.4 | 77.3 | 76.2 |
| TRUCKS | 18.7 | 19.3 | 21.9 | 23.6 | 20.6 | 21.8 |
| BUSES | .3 | .3 | .6 | .6 | .4 | .4 |
| MOTORCYCLES | 3.6 | 3.5 | 5.9 | 6.0 | 1.7 | 1.6 |
| OTHER OR UNKNOWN VEHICLE | -- | -- | 2.6 | 2.5 | -- | -- |
| TOTAL PERCENT | 100 | 100 | 100 | 100 | 100 | 100 |

The traffic fatality data are taken from the 1977 Fatal Accident Reporting System (FARS). The FARS file is maintained by the National Highway Traffic Safety Administration's (NHTSA) National Center for Statistics and Analysis (NCSA).

The registration data for 1975, 1976, and 1977 preliminary estimates are provided by the Highway Statistics Division, Federal Highway Administration, U.S. Department of Transportation, Nassif Building, 400 7th Street, SW., Washington, D.C. 20590, (202) 426-0180.

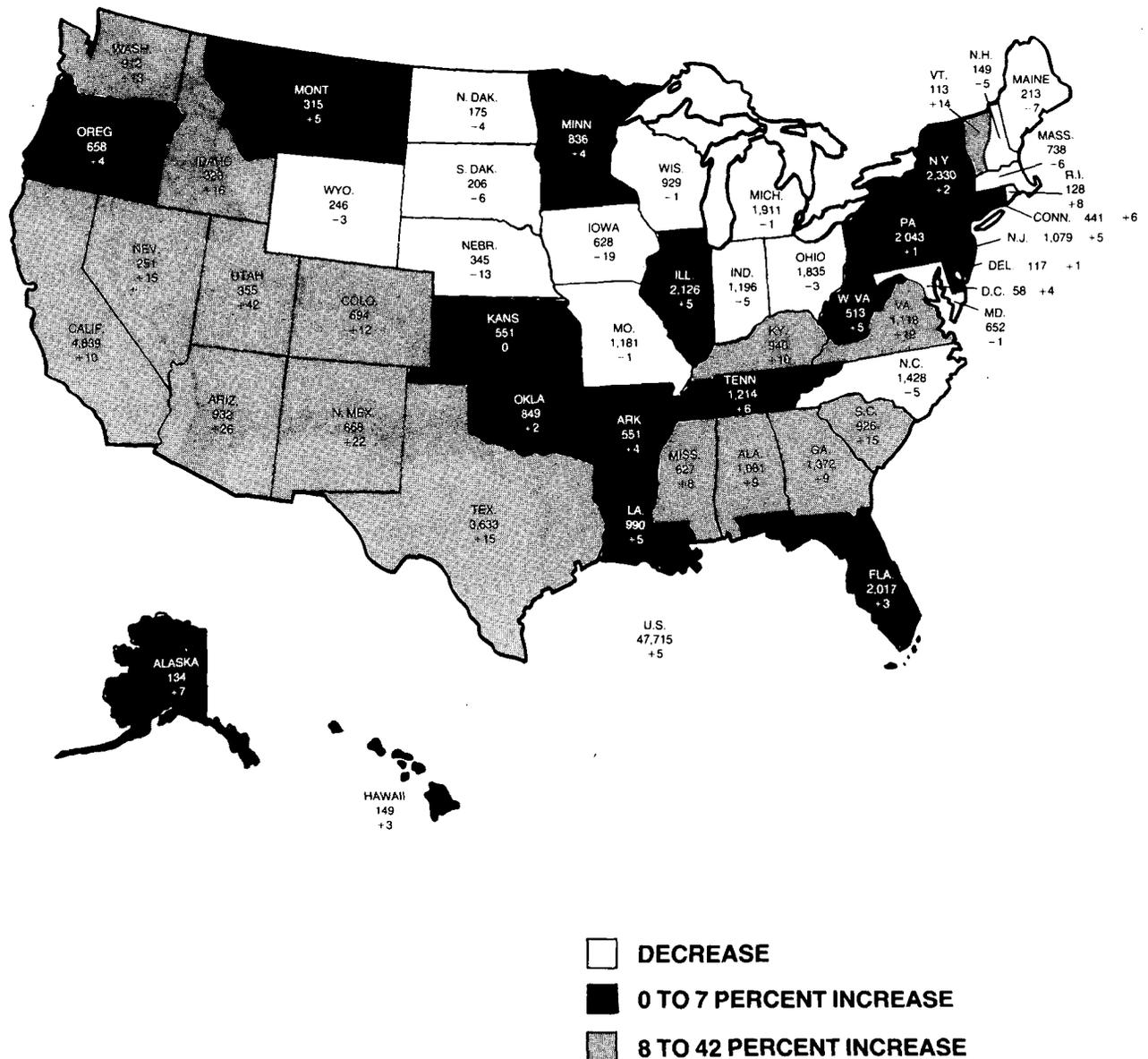
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FATALITIES—THE PLACE AND TIME

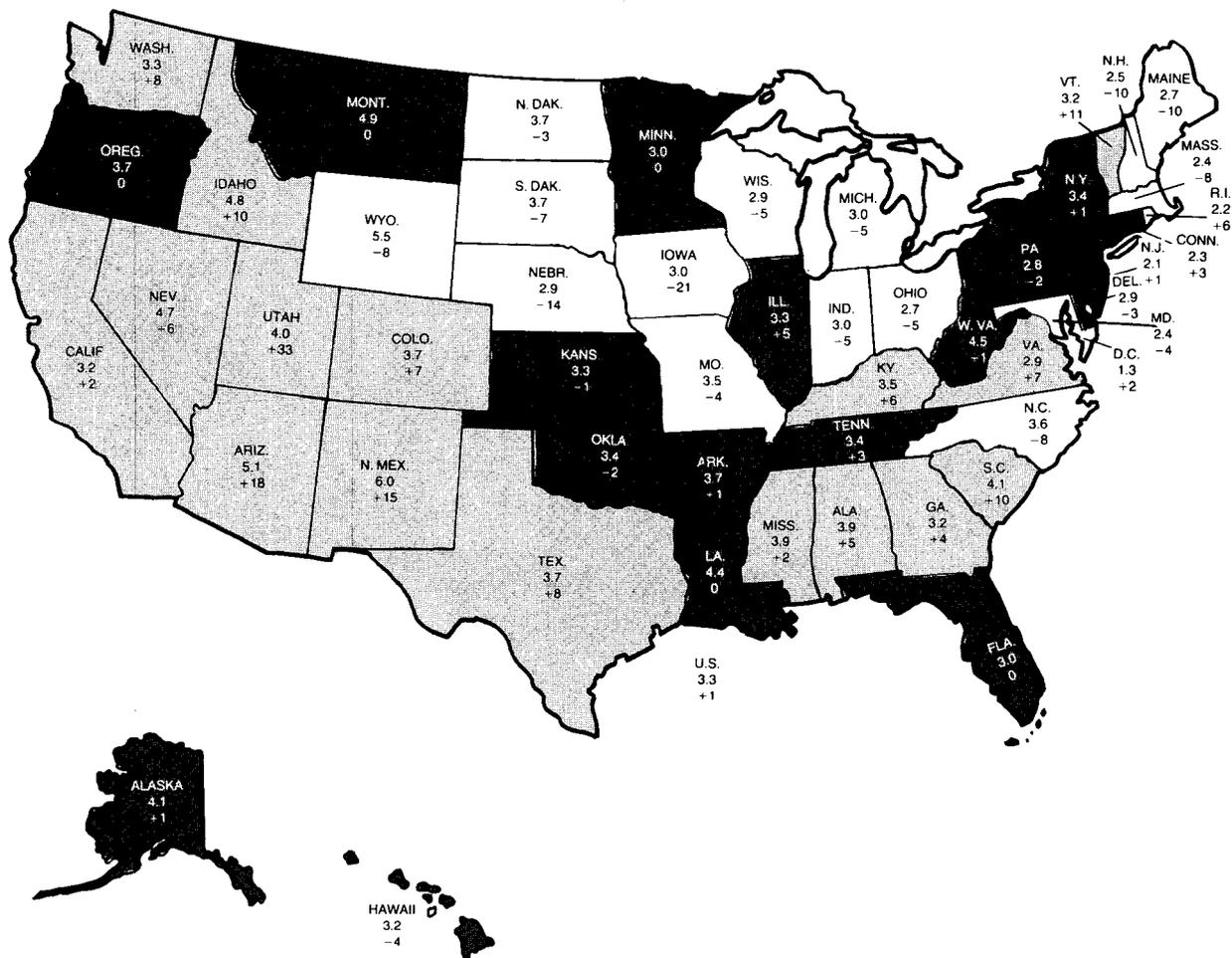
State motor vehicle traffic fatalities are presented in Figure 1. In 1977, 15 of the states showed a decrease in traffic fatalities compared to 1976, and 17 states had an increase of greater than 7 percent. States having the largest percent increase tended to be in the West, South or Southwest.

FIGURE 1
MOTOR VEHICLE TRAFFIC FATALITIES BY STATE OF OCCURRENCE, 1977, AND PERCENT CHANGE FROM 1976



The motor vehicle mileage fatality rate is the number of fatalities per 100,000,000 vehicle miles traveled. Twenty states showed a decrease in their vehicle mileage fatality rate; 26 states showed an increase greater than the national increase of 1 percent.

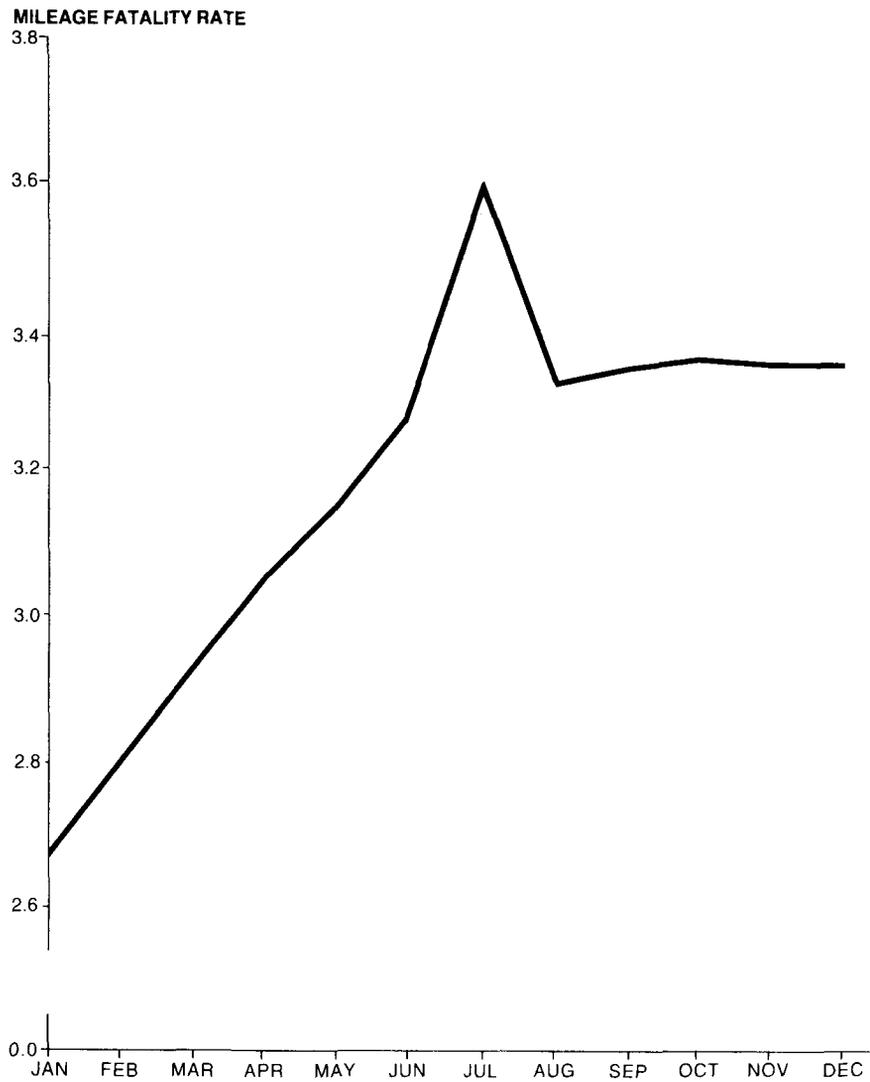
FIGURE 2
MOTOR VEHICLE MILEAGE FATALITY RATE BY STATE OF OCCURRENCE, 1977, AND PERCENT CHANGE FROM 1976 (FATALITIES PER 100 MILLION VEHICLE MILES TRAVELED)



- DECREASE
- 0 TO 5 PERCENT INCREASE
- 6 TO 33 PERCENT INCREASE

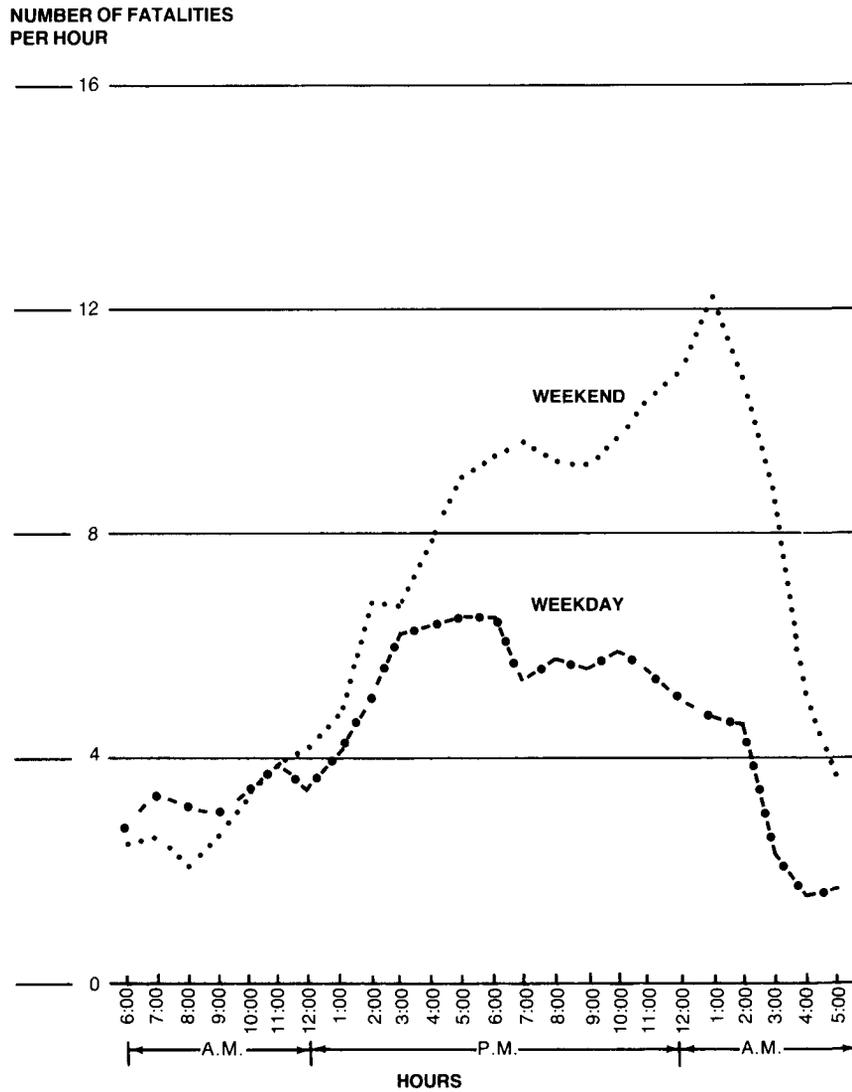
Fatality rates by month for 1977 are presented in Figure 3. The rates generally increased throughout the year. July had the highest rate followed by a decrease in August.

FIGURE 3
MONTHLY FATALITY RATES FOR 1977



Weekend crashes (6 p.m. Friday to 12 p.m. Sunday) result in many more fatalities in the evening and early morning hours than do weekday crashes. This is considered to show effects of increased recreational driving and increased use of alcohol during these periods.

FIGURE 4
WEEKEND-WEEKDAY CONTRAST IN FATALITY RATES, 1977



The 1977 traffic fatalities by urban/rural area and accident type are presented in Table 1, showing urban areas with the highest percentage increase over 1976. However, there was a change between 1976 and 1977 in the Fatal Accident Reporting System's classification of urban and rural areas. Single vehicle-motorcycle accidents represented the highest percentage increase over 1976, for both urban and rural areas.

TABLE 1
FATAL TRAFFIC ACCIDENTS BY ACCIDENT TYPE AND AREA, 1977, AND PERCENT CHANGE FROM 1976

| ACCIDENT TYPE | 1976 | | | 1977 | | | % CHANGE 1976-1977 | | |
|-----------------------------|--------|--------|--------|--------|--------|--------|-----------------------|--------|-------|
| | URBAN | RURAL | TOTAL | URBAN | RURAL | TOTAL | URBAN | RURAL | TOTAL |
| ALL FATAL ACCIDENTS | 14,755 | 24,981 | 39,747 | 17,665 | 24,387 | 42,183 | 19.72 | -2.38 | 6.13 |
| COLLISION WITH PEDESTRIAN | 4,175 | 2,883 | 7,013 | 4,713 | 2,507 | 7,250 | 12.89 | -13.04 | 3.38 |
| COLLISION WITH PEDALCYCLIST | 459 | 433 | 892 | 532 | 372 | 910 | 15.90 | -14.09 | 2.02 |
| SINGLE VEHICLE—MOTORCYCLE | 595 | 683 | 1,278 | 782 | 830 | 1,617 | 31.43 | 21.52 | 26.53 |
| SINGLE VEHICLE—OTHER TYPE | 4,291 | 11,415 | 15,709 | 5,090 | 10,836 | 15,981 | 18.62 | -5.07 | 1.73 |
| MULTI-VEHICLE COLLISION | 5,232 | 9,617 | 14,852 | 6,548 | 9,840 | 16,423 | 25.15 | 2.32 | 10.58 |

The supporting data for Figures 1 through 4 are given in Tables 2 through 4.

TABLE 2
VEHICLE TRAFFIC FATALITIES BY STATE OF OCCURRENCE, 1977 AND PERCENT CHANGE FROM 1976

| STATE | TRAFFIC FATALITIES | | | | |
|----------------|--------------------|--------|-----------------------------|-----------------------|-----------------------------|
| | 1976 | 1977 | PERCENT CHANGE 1976-1977 | 1977 FATALITY RATE | PERCENT CHANGE FROM 1976 |
| ALABAMA | 988 | 1,081 | 9 | 3.9 | 5 |
| ALASKA | 125 | 134 | 7 | 4.1 | 1 |
| ARIZONA | 739 | 932 | 26 | 5.1 | 18 |
| ARKANSAS | 531 | 551 | 4 | 3.7 | 1 |
| CALIFORNIA | 4,395 | 4,839 | 10 | 3.2 | 2 |
| COLORADO | 620 | 694 | 12 | 3.7 | 7 |
| CONNECTICUT | 417 | 441 | 6 | 2.3 | 3 |
| DELAWARE | 116 | 117 | 1 | 2.9 | -3 |
| DIST. OF COL. | 56 | 58 | 4 | 1.8 | 2 |
| FLORIDA | 1,956 | 2,017 | 3 | 3.0 | 0 |
| GEORGIA | 1,264 | 1,372 | 9 | 3.2 | 4 |
| HAWAII | 145 | 149 | 3 | 3.2 | -4 |
| IDAHO | 279 | 323 | 16 | 4.8 | 10 |
| ILLINOIS | 2,031 | 2,126 | 5 | 3.3 | 5 |
| INDIANA | 1,258 | 1,196 | -5 | 3.0 | -5 |
| IOWA | 779 | 628 | -19 | 3.0 | -21 |
| KANSAS | 549 | 551 | 0 | 3.3 | -1 |
| KENTUCKY | 854 | 940 | 10 | 3.5 | 6 |
| LOUISIANA | 941 | 990 | 5 | 4.4 | 0 |
| MAINE | 228 | 213 | -7 | 2.7 | -10 |
| MARYLAND | 660 | 652 | -1 | 2.4 | -4 |
| MASSACHUSETTS | 789 | 738 | -6 | 2.4 | -8 |
| MICHIGAN | 1,924 | 1,911 | -1 | 3.0 | -5 |
| MINNESOTA | 802 | 836 | 4 | 3.0 | 0 |
| MISSISSIPPI | 581 | 627 | 8 | 3.9 | 2 |
| MISSOURI | 1,187 | 1,181 | -1 | 3.5 | -4 |
| MONTANA | 299 | 315 | 5 | 4.9 | 0 |
| NEBRASKA | 397 | 345 | -13 | 2.9 | -14 |
| NEVADA | 218 | 251 | 15 | 4.7 | 6 |
| NEW HAMPSHIRE | 157 | 149 | -5 | 2.5 | -10 |
| NEW JERSEY | 1,029 | 1,079 | 5 | 2.1 | 1 |
| NEW MEXICO | 549 | 668 | 22 | 6.0 | 15 |
| NEW YORK | 2,291 | 2,330 | 2 | 3.4 | 1 |
| NORTH CAROLINA | 1,502 | 1,428 | -5 | 3.6 | -8 |
| NORTH DAKOTA | 182 | 175 | -4 | 3.7 | -3 |
| OHIO | 1,893 | 1,835 | -3 | 2.7 | -5 |
| OKLAHOMA | 832 | 849 | 2 | 3.4 | -2 |
| OREGON | 630 | 658 | 4 | 3.7 | 0 |
| PENNSYLVANIA | 2,021 | 2,043 | 1 | 2.8 | -2 |
| RHODE ISLAND | 119 | 128 | 8 | 2.2 | 6 |
| SOUTH CAROLINA | 806 | 926 | 15 | 4.1 | 10 |
| SOUTH DAKOTA | 219 | 206 | -6 | 3.7 | -7 |
| TENNESSEE | 1,149 | 1,214 | 6 | 3.4 | 3 |
| TEXAS | 3,172 | 3,633 | 15 | 3.7 | 8 |
| UTAH | 250 | 355 | 42 | 4.0 | 33 |
| VERMONT | 99 | 113 | 14 | 3.2 | 11 |
| VIRGINIA | 1,000 | 1,118 | 12 | 2.9 | 7 |
| WASHINGTON | 804 | 912 | 13 | 3.3 | 8 |
| WEST VIRGINIA | 489 | 513 | 5 | 4.5 | 1 |
| WISCONSIN | 935 | 929 | -1 | 2.9 | -5 |
| WYOMING | 253 | 246 | -3 | 5.5 | -8 |
| TOTAL U.S. | 45,509 | 47,715 | 5 | 3.3 | 1 |

TABLE 3
MONTHLY TRAFFIC FATALITY RATES

| MONTH | 1970-72 | 1973 | 1977 |
|-----------|---------|------|------|
| JANUARY | 4.62 | 3.98 | 2.68 |
| FEBRUARY | 4.29 | 3.76 | 2.80 |
| MARCH | 4.18 | 4.03 | 2.92 |
| APRIL | 4.38 | 4.07 | 3.07 |
| MAY | 4.47 | 4.23 | 3.15 |
| JUNE | 4.37 | 4.35 | 3.29 |
| JULY | 4.64 | 4.21 | 3.60 |
| AUGUST | 4.53 | 4.14 | 3.34 |
| SEPTEMBER | 4.67 | 4.40 | 3.43 |
| OCTOBER | 5.02 | 4.47 | 3.56 |
| NOVEMBER | 4.73 | 4.18 | 3.51 |
| DECEMBER | 4.81 | 3.88 | 3.51 |

TABLE 4
WEEKEND-WEEKDAY CONTRAST IN TRAFFIC FATALITY RATES

| HOUR | WEEKEND | WEEKDAY | TOTAL |
|-------|---------|---------|-------|
| 6 AM | 2.49 | 2.80 | 2.85 |
| 7 AM | 2.61 | 3.37 | 3.15 |
| 8 AM | 2.05 | 3.16 | 2.84 |
| 9 AM | 2.71 | 3.02 | 2.93 |
| 10 AM | 3.38 | 3.15 | 3.21 |
| 11 AM | 3.90 | 3.92 | 3.91 |
| 12 PM | 4.21 | 3.62 | 3.79 |
| 1 PM | 4.80 | 4.20 | 4.38 |
| 2 PM | 6.77 | 5.08 | 5.57 |
| 3 PM | 6.73 | 6.28 | 6.41 |
| 4 PM | 7.81 | 6.43 | 7.02 |
| 5 PM | 9.05 | 6.53 | 7.62 |
| 6 PM | 9.43 | 6.51 | 7.77 |
| 7 PM | 9.65 | 5.95 | 7.54 |
| 8 PM | 9.35 | 5.77 | 7.31 |
| 9 PM | 9.27 | 5.56 | 7.16 |
| 10 PM | 9.70 | 5.90 | 7.54 |
| 11 PM | 10.48 | 5.57 | 7.68 |
| 12 AM | 10.88 | 5.04 | 7.55 |
| 1 AM | 12.25 | 4.77 | 7.99 |
| 2 AM | 10.83 | 4.58 | 7.27 |
| 3 AM | 8.83 | 2.37 | 4.23 |
| 4 AM | 5.11 | 1.57 | 2.59 |
| 5 AM | 3.65 | 1.71 | 2.27 |
| TOTAL | 7.51 | 4.34 | 5.46 |

The motor vehicle traffic fatality data are taken from the 1977 Fatal Accident Reporting System (FARS). The FARS file is maintained by the National Highway Traffic Safety Administration (NHTSA), National Center for Statistics and Analysis (NCSA).

The motor vehicle travel data for 1976, and the 1977 preliminary estimates were provided by the Highway Statistics Division, Federal Highway Administration, U.S. Department of Transportation, Nassif Building, 400 7th Street, SW., Washington, D.C. 20590, (202) 426-0180.

For more information about this and other Highway Safety Facts, write the National Center for Statistics and Analysis, NRD-34, National Highway Traffic Safety Administration, 2100 Second Street, SW., Washington, D.C. 20590.

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